=========================
ufo/skeptic #325, from Cix_UseNet, 63330 chars, May 20 19:31 91

TITLE: free energy news (measurement results)

+From   : leo@zelator.uucp (Stefan Hartmann)
+Subject   : free energy news (measurement results)

Workshop for decentral energy research e.V. proudly presents:

****
* How to win FREE energy with an   *
* Adiabatic-isochoric-adiabatic-isochoric cycle over labile states of the   *
* P-V-diagram   *
****

from B.Schaeffer and W.D.Bauer
DKOWA Gmbh
Pasewaldtstr.7 W-1000 Berlin 37, Germany

keywords:
free energy, violation of the second law of thermodynamics,
spontaneous condensation,thermodynamic cycle, second law of thermodynamics

Abstract:

Measurements with a benzene-water mixture at 154 deegrees Celsius show that a adiabatic-isochoric-adiabatic-isochoric cycle through the supersaturated states of the vapour phase during expansion allows a machine to be built, which in contrary to an equilibrium cycle does not need two temperature poles, but only one.
Other substances will be proposed, which allow the same process to proceed at environmental temperatures.
Thus it will be possible to build a refrigirator which produces electrical power when operated !

1.Introduction

The concept of entropy was created by R.Clausius. He showed that the expression for the entropy

$$dS=dQ/T=(dU+PdV)/T$$

applied to an ideal gas leads to the result that S is a potential.
With the development of the first real equations of state the usual concept of entropy was again introduced. However, in deriving thermodynamic potentials the assumption was then built into the theory that the entropy has to be a potential[1]. Regarding dynamic phenomena of phase transitions (for instance spontaneous condensation), however, the potential concept of entropy becomes senseless, because the labile states a gas can reach with a fast adiabatic expansion do not fulfil a unique equation of state. Thus, the thermodynamic

potentials become ambiguous and lose the mathematical character of a potential. Therefore, the question arises, whether the second law of thermodynamics (in the versions of Planck[2] and Caratheodory[3]) remains valid for labile states. We will answer this question in this article empirically with a clear NO !

2.Experimental procedure

In order to test the dynamic P-V-behaviour of vapours as working media in machines we built an apparatus, which consisted of a cylinder with a movable piston, see fig.1. The diameter of the piston was 10 cm. The starting volume was 10 cm3 ,the end point volume was 1200 cm3. At the entry of the cylinder there was a valve, which opened and closed the conduit pipe from the boiler which contained a heating coil with a maximum power of 300 W. The fluid (300 cm3 benzene (Merck), 3 l bidistilled water) was cycled continously through glass beads in order to get a uniform evaporation of the non-miscible fluids, see fig.1. Boiler and cylinder were embedded in a heat insulation. The piston of the cylinder was driven by a second larger piston moving in a cylinder(diameter 14 cm), whose pressure was delivered from a 12 bar compressor.

The velocity of compression could be regulated by needle valves in the exhausts of both sides of the driving cylinder. The housing of the cylinder with the smaller piston was thermostated by cycling the fluid of the boiler through it with a pump. The difference in temperature between inlet and outlet was about 0.1 degrees Celsius. The temperature of the lid of the cylinder could be regulated separately by a thermostated electric heating of maximal 100 W power. Cooling down could be improved by removing the heat insulation.
In order to measure the pressure a fast piezoelectric sensor was built into the lid of the cylinder. It showed maximum deviations of 0.01 bar when measuring the adiabate of air.
Data collection and regulation of the apparatus were achieved with a personal computer.

3.Measurement

At a fixed temperature of 154 degrees Celsius and a pressure of 11.4 bar the starting point was set. Then the valve to the cylinder was closed and the piston was expanded over about 0.3 sec, see fig.2. First the pressure went down and then rose again to a certain level with an increase in volume. In most cases

a maximum was reached and the curve went slowly down until it reached the end point.
At the end point of the expansion a pause interval of 3 sec was set. This time was the optimum to get a maximum decrease in pressure about 4 bar.
Then the piston was recompressed in a time of 0.3 sec and reached again the starting volume. The pressure at this point was slightly higher than the starting volume, but decayed and reached again the starting level after some seconds. The net work area of this cycle was typically 200-300 J.
A necessary condition to get these results was that the lid of the cylinder was cooler than the housing (optimum difference 4 degrees Celsius).

Performing periodically cycles with the cylinder closed the net work area decreased in time, but after refreshing the vapour by opening the valves of the cylinder the higher values could be achieved again.

4.Discussion

a)experimental

Our apparatus has the disadvantage that the pressure of the cycle can not be measured under conditions when the pressure is higher than the starting pressure. Nevertheless, it can be shown that with this cycle a net work yield is obtained.
If we assume that the pressure of the working medium before reaching the end point would be so high that the work area becomes zero or even reverses sign, then the excess pressure pex can be estimated from the formula
pex=work area/(vB-vA). Inserting values from fig.2 (work area 452 J,vB-vA=30cm3)

we get an excess pressure pex of over 100 bar. This would overcome the driving compressor or would exceed the absolute maximum ratings of the apparatus which is designed for a maximum pressure of 20 bar. Neither is the case. It can also be shown that the small temperature gradient in the cylinder cannot be responsible for the work produced in the cycle. If we assume that the cycle is driven by this difference T1-T2 it would have an efficiency | of

$$| = (Q2-Q1)/Q2 = (T2-T1)/T2 = -W/Q2 ,$$

where Q1/2 are the heats and T1/2 temperatures and -W the work.
Then our machine would have an efficiency | of |< 1%. This means for the cycle of fig.2 that heat amounts of at least Q2>45.2KJ and Q1<-44.75KJ would be exchanged between the wall and the working medium (mass<10 g) in about 4 sec. These amounts of heat are enough to heat up or to cool down the temperature of the fluid of the whole boiler (mass=3.3 kg) by about 3 oC, where we assumed, that the temperature change could proceed during the cycle in 4 sec instead of some minutes as actually observed by the temperature detection system of the thermostat (sampling time 1 sec) in the lid. Both heatings of our system (together max. 400 W) are too weak to compensate such amounts of heat in these times.
The temperature difference works as a cooling trap collecting fluid in the cylinder and is responsible for the point where the evaporation begins in the expansion phase, but has nothing to do with the production of work in the sense of a Carnot cycle.
Even if we accept the opinion that the work is due to the temperature difference, then the observed over-Carnot efficiency means that, according to the considerations of the Carnot theorem, in a machine this temperature difference could be maintained by a part of the work the machine delivers [1]. From this follows that the second law of thermodynamics is in fact violated.

b)theoretical

We explain the measured cycle in the following manner:
The fast decay at the beginning of the expansion adiabate is "normal" adiabatic behaviour of the gas. The increasing pressure with increasing volume expansion is caused by the evaporation of the fluid under vacuum situated mainly on the warm wall of the lid. If the evaporated fluid enters the cylinder it becomes

labile. The plateau region of the pressure and the often following slow decrease is caused by the dynamic equilibrium between evaporating fluid and expanding volume. The breakdown of the pressure at the end point of the expansion is due to the return to equilibrium.
There are two different ways to explain qualitatively the labile state of the expansion adiabate.
The first is the hypothesis of Doczekal[4], which says that benzene and water have different temperatures at the end of the adabatic expansion. For this interpretation some arguments can be found. The vapour pressure curve of water-benzene mixtures can be calculated simply, like ideal gases, by adding the partial pressure of water and benzene respectively [5]. This means that the gases are independent and do not interact because of the hydrophobicity of the benzene. The diffusion and the heat exchange between water and benzene is therefore hindered. Thus, in a fast adiabatic expansion both gases have different temperatures at the end point.
The second usual way to explain the expansion adiabate is that both components are at one temperature in the supersaturated and supercooled state and return to equilibrium via spontaneous condensation [6][7][8], changing the pressure energy of the gas into inner heat.
The higher pressure at the end of the compression adiabate can be understood more easily. It is caused first by the fact that during the time interval between expanding and compressing heat enters the cylinder, and second by the fact that in a fast compression the applied energy is unequally distributed between the fluid and the gas because of the different moduli of compression.
Now we have to characterize the difference between our cycle and the carnot cycle, see fig.3a-c:
At the beginning of the cycle the working medium is in thermal contact with the environment. This means in our case that the working medium of the cylinder is connected to the boiler as environment. Then the working medium is decoupled from the environment, i.e. the valve is closed.
The first three steps of the cycle, including the isochoric part1), we assume to proceed totally adiabatically (dQ=0), because in effect no amount of heat can be exchanged in this short times with the environment. Assuming the first law of thermodynamics to be valid, we have to conclude that the temperature level of the working medium should be lower, when the piston reaches again the the end point A of the cylinder, because a net amount of work has been subtracted from the internal energy of the medium during the cycle. In order to close the cycle the cooled down working medium is brought again in contact with the environment (i.e. we open again the valve to the boiler) and after an isochoric influx of heat, the working medium reaches again the original temperature of the environment. The efficiency | of such a cycle should be 1.

5.Outlook

The described adiabatic-isochoric-adiabatic-isochoric cycle needs only one heat reservoir in contrary to an equilibrium cycle. Our system, however, is not directly suited to building a machine which gains energy from cooling down the environment, because the starting temperature of the cycle is too high. Therefore, we have to look for substances, which show similar behaviour to benzene - water but at environmental temperatures.

Footnote:
1) The word isochoric (dV=0) we have taken over from equilibrium thermodynamics.

One should be aware of the difference that in equilibrium thermodynamics an isochoric change of state is bound to an exchange of energy with the working medium. We see here that in non-equilibrium thermodynamics this has not to be the case.

We looked for such substances with the following strategy:
1)The substances must not be hazardous to the environment. Regarding mixtures, the substances must not react chemically.
2)The critical temperature should not be too greatly in excess of the environment temperature.
3)The critical pressure should be high enough to allow enough energy to be produced.
If one looks at well ordered tables of materials [9] one finds on the polar side

methanol, ethanol and ammonia, on the non-polar side propane, ethane and carbon dioxide.
Using binary and higher component mixtures of these substances it may be possible to adapt them to each technical problem.

references:

[1]Sommerfeld A., Thermodynamik und Statistik Harri Deutsch Frankfurt, Thun 1977
[2]Planck M., Vorlesungen ber Thermodynamik   Leipzig 1897
[3]Caratheodory C.,Untersuchungen ber die Grundlagen der Thermodynamik. Math.Ann.67(1909),355-366
[4]Doczekal R., Deutsches Patent Zweigstelle sterreich 17.10.37 Nr.155744
[5]Karapetyants M. Kh., Chemical Thermodynamics Mir Publisher Moscow 1980
[6]Katz J.L.,Ostermier B.J., Journ.Chem.Phys. 47(2) (1967),478
[7]Zettlemoyer A.C.(ed.) Nucleation Phenomena Adv.Coll.Phen.7 Elsevier 1977
[8]Ehrler F., Spontane Kondensation VDI-Wrmeatlas 1988 VDI-Verlag Dsseldorf 1988
[9]Reid R.C.,Prausnitz J.M., Poling B.E. The properties of gases and liquids McGraw Hill New York 1986
[10]Schaeffer B.,Bauer W.D.   How to win energy with an adiabatic-isochoric-adiabatic cycle over the labile states of the P-V-diagram
WDB-Verlag Berlin 1990

figure legends:

These pictures follow in an uuencoded file which is still packed with LHARC. These are fig1.pcx, fig2.pcx and fig3.pcx. You can view these Paintbrush (Z-Soft)-pics with any viewer which can handle PCX format. They are scanned black and white pics, no grayscale. Try it with vpic.exe, graphics workskop or the paintbrush.exe program within the windows 3.0 package on the PC.

To unpack the pics: uudecode the scrambled ASCII-code and then type:

lharc e pics.lzh

fig.1: schematic sketch of the apparatus:

1)lid with heating and piezo-electric sensor 2)valve 3)static pressure sensor
4)boiler with heating and glass beads 5)pump
6)driving piston 7)position sensor 8)piston in cylinder

fig.2: P-V-diagram of an adiabatic-isochoric-adiabatic-isochoric cycle going over supersaturated states in the expansion phase. Work yield 452J

fig.3a: Realization of the adiabatic-isochoric-adabatic-isochoric cycle
phase 1: coupling of the working medium to the environment

fig.3b: Realization of the adiabatic-isochoric-adiabatic-isochoric cycle
phase 2: decoupling from the environment, performing adiabatically the first three steps of the cycle and lowering the temperature of the medium

fig.3c: Realization of the adiabatic-isochoric-adiabatic-isochoric cycle
phase 3: coupling again the working medium to the environment, equating the temperature difference by an influx of heat into the working medium

And now the pics:
************************cut here*****************+
section 1 of uuencode 4.02 of file pics.lzh   by R.E.M.


```
begin 644 pics.lzh
M'NLM;&@Q+8,W``"WU@``ZI&T%B``"$9)1S$N4$-8E2/+9'&X>,C`!%Y#FXFX-
MO7,:"\#`@#"O%EC'6^Y9NB#W``K$&W1Q$Y8"U@%G@6J!9@+2!:0+*@59HAG++
M7ZT$J]%-BD^2@7K8#*&6=A@IDH6NQP>K13+Q+-X(0R<Z!\E"4(6XD&JK\=1:=
MC"Y1-7#*R#[9$@`^<7>@>\E=@84^.#;`J+7Q<'X3-Q0/C$7`(NK!S3A`/LC3.
MI,',#`UO6P0-0&S*-(S;`U.F,9284'+SH*Q-!KL<&HV%(D#@X(0L&2ME"*35/
MI<2L'7:LZA5_/G/C'A!,8.-2-#@HW)"@SL5O(H@"BC5W\'KK^/&?'W\-J_XJ5
M.>#Z#BE\117H=BASN`<,Y!$[W/A+Y^\*$0:A]#7'TF@`OG9GF'`1,#3$-<E1A
M:&NP`:4Q)<J6L[XPALT"&O@`L+%3I1O.@VHM3/#YJ'"``<]*ARV(<^'6SKRV<
M@/\;S;^&:L)!L-E-AO([`W]P&_VPW]H'LCB"@!BS_L+51^%M^'R]ZG#(4-Y07
MI8JA2T'PI:SLEGS]$:X5)S!4UP%8"ECE85M1UA5WFM[N0M>]"P2<4%CAB;0PO
M[-#!L2#$O:W9&A:+T+6T(6UB.K7KZ%_;A=MB"[QNXJ#P6KN"TO.O]0OY;N_>R
MZ\1."UV$+4J86M8"T><+<N#@MZ-M^8QRS?Q=0%<&4S+`82Z=.6+XT&IVD-)M5
M&D-4)F1Q!G#'<&D_'+HM@<0V9DR'7[`=RA;`ZDDVQ3#($_EP.I$5)FT.:>]!%
MG,QC?#B19D.'#)V6F:IXPXD<4M$]!QQ+6#ERD.-(H@Y!+#G(H#D!J!5,<6!^"
MBB<8?5O#\!HAOOQFDIQU2'ZTA]47<'UJ%A:5%'4G!];OUP/MB`Y(&E_2TE7F8
M/\\U@??(T)W\=60J/$OTP_-U8=[`YRCI[-TGFTNM2N")):DH#B5"(36ANA"SQ
M)J0)ZLH3,+$(S21'_5%L:AR0XF=&\@]2,@KA(>`Z6D-AY8?-F,_<1BGY`@TW#
M31^`#4CK:<J140<9/-1IS\DE;:\3I"67$8>O76][DX>'D10"0/1@.TPH0>JX+
MM$M+%H;=FT<@Z^WGIC#5]T&IKLJ;FB`YINFG0AP8WN=+02XH5!A[F060W[DO:
MH/@ZM;<ZAT%\'433PQ0XKB`2R7!#?)7"CP=%Q)J$.Q97F"'7;/N`M@Z4_BVME
M3#BR#D$'%8<89](=YGARXV^(9_%!>U(!1\+@7-<ED7E;^_K,^2K]<E^MNZ:YT
M*NBQ,X)IEC/<J>'N@$'T$^_[;^](=3<&KT^[7M#P!>@[PSFBG_VMP;J5QTYZ;
MI7R?('L2L7".7@IUI.H"A!()^A,\N_^7IMS1&-F\_&EL"O^@-CH%TY]X%_=7N
MX\&K3PL`?GI&I(4IR`#HQH&["5;*(CZ/>(R5)'I&(]<!'Z/DAUHN;UG!%Z"<A
M19Y'Q33D:G,L)@\F!`>M]=F)D04"?%%5[8DY(=DWW%#LZ(.>.N4R:8EU\/:Z\
M#FA\?*.?<B"P9Y)`89?-4$))5-(CLIYH(\56569&HCLR6"(Y7<)@D/AY&B$01
```

```
M6\_A7[R98ZC^_JSV55B,#@?++;;7P$Y<P1C%45HB_A,P!V\@@*<(J"/AM.J6*
M0)L^'$FV@LNZ[*M@VDHY-G!VG\$T"FP<`-91)KOU:AY02X0$QI6%Q3:^^^0&Y
M9(:=#DB<%<R+?BM;,TKM6?%?EE<E/F?/O"$&R.ZEGXXM$]LL-CU:HT*Q=O>C=
MGAO1X];=9+-D?,OOI]E(1\&.9PY-ZKVJ`;3<#\8QB*C;-K5;HVF5ZP;=!+#;D
M+SIRLZ!MC%2L3/V^5QRB'PXEX&[&H:(P`#A[/Z_6&?'#P-<V4\#7OD7F(K.39
M6+&N45HTWHIMV5L57??=&DEXF`+D&1Q3-=[TWG]=[09*B`H>(TWL-,4_2-#X0
M*#12OL!BC1./O^&GE)A[F[-A.Y3%D8JI82,YR:F+;F8`[-"VNLC)RZ#,.Y,&_
M8MLU7GD]+S33"CV6,:<UJAH^Q#LVCJ///9`QZQ;SHTZL>B5>D2Z\K:(@E3^T-
M2YXD\#U-$>.*"/?4YA#J;0Z`EB'-PIYAO*ZB,;-KF.K:%(0MND,G="J,CES,X
MJC?%WP&3\A.]2H)[\48?^OCWSF28(:C)S?.',8@8>6%(`%-<6SQGO)Q(S%J+G
M@AG^;R0C1!=).ZC+@.T:6N3W$.Z&6Z9KJ`U68%<KNZ#.'8&>&1&>\H;K0T9F!
MBPIM&7+FNJ?"<&,W7-R%77LZ-;_"ER/&%VPOXY7='N91E:,AX=[F&(08#$<0!
MTI1W51J&,;RQI.-_?;E-><:@:;-+_5B!JD'*[=&ND9E'*N9F\A#,`T@@W>UL-
M(-^C2^%M[$M!E(C8`LSX:.E:_RH$>X=[J(F,WW/8YQ`M!0WPGO<3`%_FV)V9;
M.SC)3+I+CP;-C"OEK>D=WWX9)E.2[*=WE##1YQDA?JB).E2K&8<7X!X\WTS,:
MB_P5=KT0Q>E4.T*P8*5_R.KPWRSZ:VQB&`7W64%#5-WTGY"4".]!*+;\2"4B-
M`GFO9?>.?+K?(#+!>)JX9/.8RDA?OR=T(R-A<Z]_U0^DOT9_&X[)CH2T#-!?I
MNR_>L9R2T>_55/Q$77]!C%V+(/[2H1+$VJ?RM8+#MXJHH4U37'5W%^N(L@J/M
MSX19X[X`L`;:+!:<5WZOD\??K-0+(.ZDF457E/Y$"_AJ/\G?!-:":=/CRL)(S
MGW]?_1+N%_^9:;(;*7EH52*/W:"15?=[],/L33LTK#,K5'O16B/18K>99MPH/
MLJ=7][ODD[H/$BV%`A%L9\3)24S+GZ>/D_J]X3PCS1S%)Y+&&#]_J3,Z?[,0V
MN0AZ+T.%^YV^"^#EZ$P#/MC\,*IQ1>_A?1C"]Z5U0>8T3:C%WA_M87*8Q=^*9
M[7R\O]G.J"FO_H9?R\$+3\&@76O_J8$KF("YSU+?#1J&W:&.SF!'OJ_B;<UO9
M!,_[VC_>,*((SEI'CLD@6^GU_,#K/=#$-V/<?A0=AW@H"^3\N?)J*.6%&V("=
M$_R'PZU12A*P/.(S+"$O]%/Q7]M9YB6+6?IX\!-JD$C9A'()D!UX\4C8P-X$&
MOJ8^$OK7UUQ=\1Q'I]%V[2MP$:+VD0[E?!*J]][S!U2_1(SNF.J"A\$H.\/C,0
M[#$0TZ6Y!$W>_H>DZ[E7D=WZXK$(WO&P/<&D3T)29PUY5^B)+0-QL_/O\>AD-
MMHR@[Y$WJ^$EH0!$Y6^]4LT+F)7?L\MS\_PD6@O3==?AN<`"!X6`O6O]@;8("
MR106_-D`$9H5;M6=(PW!*QO5K[V$K#<TUZ;3N\)SWE_$59CO@GMNZ^?V8VQ(3
MXPMEDMLX^A^GFX*.&[3Q_$C+=3Y0.[!)6Q?:2*.Z8V6[;NBDL$C5'AEF[0B<A
M_GEWU](G?`&PBUA)]?;=LW'2*<,%S69O>S3?83N@_IE#5K@QZ(>6$(T]FS2(4
M-@UD"N;]9*_\WD`N-U3`]\1)>._G)5(&>#L_AVY_C2("]$"=-I6VP0`>U"*ZP
M)C-.18U>;]2&G&E<%'R3S34[*T#'0;^&[E.I@MXYX6LB1F[&R`1<BT%.:7I-6
M:GS"'C*9KU].G>(552(N#VR]+R+K,U)0^5OO(?>2'\<,X'Y&A^/!OGR[N`^A2
E^6`O:#]=@GRY:(#>%1:R>&Z:*SX8/JZF%IIAM?BD9AO,/R3:*F<)678!&W`9
ZN3BZ1NU]]N%??H[EO%?BCL%*P>_RCSV=X>AJU[[KA5/60FIV83`+96,37>%>
BM1,"1K<-G$SZMA:R)JDO1BQ-?EI<6A]`F]U;ML3&$6T@>68F[[OQ?]];+]9I
DS#Z:RJ4V4F56X;9S<[&MOWVH.PO#'VL3W^YURMN`8\Z-QCX:_C\,SB@[VL-,
)<=Y#NQI+O[8/,J+40./OI#3[(1Z-)^6V`XL:`6E3.Z:E'8X^!H<"$_(J]3#W
;DC6)9*N$#RYI>0TI7F_R+'ZOU_6GPMH[A-5BC^(F>O;?9P,0]]FQV)ABD\.S
"15&(@BL(=48A?=)>H)/!$\MYB>$KR3(X5#"8X?,=FR-[X`LDA=V&+F,*2U6,
E^+$DYBF$243"D#:E4A3]T"KVRZ/'8BF26*3L9E3Y;5`K<F*_UXKY^ZU2E$*>
X=)%?_9#H+!6C[4:=*^UMC17)QPK[T$C#UE^X%GQEY44P'>*!O._VF/S4<4U9
MS8GZ059>]"BY-$_<[@!M:=P$@WX2(<';,8"(_RG@_R(_P[584AR(TX41G#RH
<HA)RI$=K"(9`1UAZ,4(S^1CF+8J_5B7,3.4\_*(YU0BH0[C-N<0OK"YV%7QI
F\B(R0L&W6I>'B\(1_[+6)$;_9;_IV40JS_DZM<1U9GVHG>=Z5T0A9<=D`2!0
D&(:60(1_@Q+^VA%-A>?ALK=N$9A.%!>L_=+98L,\`'14XA4N9O/,EI&V6_.M
*09X%0/EXGHI._P8+'B7Z*IBT`V0C`I!6,JKRC"IY08*8*O"CZ#XK2];L]A6<
%,,.P"F.&V%`NN";AGX?KNUG_0=,D^Q2#-8T+ZR]L:>U=EWJ6%6KW#!NRSY1\
;9(!Z."H*JX"&R+B);DN-PTDO3>(Y%8L%;J]M,+LE>MHV#A?\"D@%6B[!857^
%?45"J?UT=L.PYRV6)BKB0KNV.I6LV71Z].Y6'\:.1,T1XMHX)".LEQI5N<B8
W01R34JW\'VYB/(G8)B/WM3HF6\80AWX^]=@^PAP![^U@_(1\^T_B5OX(_\F7
^O[ER(OB@1'XBOV?)[0:S>;]G[B?;'?@^?.8E0$(4![$*&GZ)5LS@619QG-S'
<M$SE<+=A@[S('?0M=P43'I\5)_,+FYJJ-+A2B5[#&3&GL,:D'B&\^_/Q$!#V
```

M[;]2>4U@*(_CJB/J^A'<FY^S9U8<AWXC8S[E8*8T,B$?(>GXAP-&',(]BZ)84
M5?`$>[ECZ(^B'U.<S[UC^V*3--!/S'O?(GS?.!U#N=902E"88P\,3"RI(+"<H
M9!N%>,3F#@J?_(7G3^X!+-(<C-S.W3Q'*EN4EXW3DHOXHPX4)1Q0)%IBB@44G
M>]-=@L=IO"(H]`X^R*)T<:8H80QAC,Z"AE8_)='`\T2(+!0:?7"1=%#PHB<IV
M&*`4@?&^:=BA!H0YWK%%&WR3Q#;0$#$/R80>H@CJ;?ZD*7UH@:C#27X3&&S1!
M!&86"@HM8_%7.3RQ!Y*'$IECN@H(),UC#74021IND8:[$!_:-7=A)Q5&G';!V
MV&`@Q$'H8;KZJ=YM$IF:UDK4HH;F3_$4P,YNXIA9"GS"D;O.X),8Q(A[!1KS'
MED@4`--W(D<DN"B<RZ6EXUS'M4Z?QU@H6_\2%@H_W=\B?6JAJLE^J4%_JOB_4
MO,VO[LM#KLX^0;OXC[(!^:4WCN=21;_$?\QV^;^L7/R*<Q*T:)QZ7OZGM;ZF>
MJ,H'<I#?43*%*$,,$&K4+Y0@,1!B868@S./0/[SL>AZ#V4@Y:,WOJ5#5A0<!D
M0P*V-"^T7U>:U(LXL(Z@1LL'_#^"OD08K(8V9YG3%\3GPR%&T_FPHB:J##!2&
M176D*]X/`IX%/-]G*](&*/"AHM*5:;ZA2='+W^:6-7Q9?_O9R[85L6*`VMO,I
M=\4V%B]!3HR+R?I=XV^&-U#".(1-I@;Q$5+]@5%8@G15BHUI"_:'B/28DX<Z0
M%J6%)Z<Y0*9^<_(I]%._\&;6%2XJ(MUPE$<R8:Q&LHC#P85K7X,;I@R<HQ<6N
M%R@B*U[XB')1"H]N"(2-1";T0LM^.!9LTL=2+"=C<LG!_M7X.'0JUWF.V^S2X
MF?=<^O1RK^*9VM^"O9#T3.BO/43OIKQ)S[J_HFF+=:IK.ZQ*MI$K&M^0F?@8H
MFCMHFP_C,3JZ`?DC@)]XO%(&!.LHGBS>`G0>Q'K83Y)2E0:&0$:I4O[S9D827
MU270G\"?"G('2/7X8G[EN_=27Z2SR)Z$/E2A1K:-9U/>11Z)#T.EQ_=;[%%P5
M5+^7*&8'"B&GQ)F#Z6DC-[%'=L)]!(%$WNK;-3"9+-=ZEP4RLP1<$:NJ[*>B8
MD>_7XE*PX7Q1")NG@)PE_U88TI_%*@7MG4[8^O2>MRUR9Q0@3JQ[\._GE>^"8
M(E*Q2I&/1G1@&/0'2IE(^ZC>`UNOY,2-*@(A."5J'W;E7FNHB42CV$PLE9VHT
M@`M+OSAW,)49O>@SA.5AV(KH17YJ-%6/93[G$3Y-V1.579EICQZ-CIO`A36R1
M3@DG#RI/JHH:NZ_JY.7_.12NO92(!JH!!1P?N<U-Q4X_G1ITG/;!2<^^-'7@'
MH:Z6L).Y2%IQA")C!%L/7.);P51@"O^<H"LL@KY;J[.N'Y.]\]Z,\EEY9)SUN
M\'&MWW#O9S;\G8#.=[E<R0_0H>T_']$3?`2P5@P!W;SG\%X`\H1SIK<)D4//J
MS0&!WWM^@G'0G,<_>:`5,#8*GUOWB*1-G/F$55#!B!N?("_SC@:NWEA=@+W9S
M7/H,ALC:XR@PSRE:T"()`6L#-=@7^I"-*;'.+86#FTW!&KP-W>M@608W@I:)>
M<[VJX05&""^VTPC,1V`?L9&B/9!/\&"DGGJ.H\`_7!RP#^#78.<@BK!S]4Y`#
MYSB,I4\>X<XI?(>!R"!>^#IOM+0#*X=,()H=1QNR.Y,:0.P8U-J8.W/,QP/ZG
MV%-<,U\>6GUS']A</6@0![_@][LY2X/5X'LE!P\S_>/"&BZ@\3XNK>'K:LV#O
MRY6?S35C)/,>!>';/@8S7*8[8Z4E\+=%ADB3R+`C!(K\OB#)3)<TR4P`<2F-M
MD:\!RZ?[_:4X6<Q'].$8PW.';`HZ\14.6U13C7H!T^AVM7956(KS^=7K00>$'
M*K1-(()]H6ZEH%M@C.7X(#!UF\D#?4%WW"Y7(_A"7;&6&F`+?:P'-W?P"]TS:
M%><!O?1#=0Q'Z>E<=?T6"NTD5Q'0&#$[<Z3%3HL<FDS4.^C&S,XEI`&;*Y):6
M77)`9W_).H+N,OSTM_F?9_N[*._&T2/3O<("7Z*6:"MJ*V%4\-NL3G3>Y_;4>
M99_D!7[A7=RK-`4`_S8#Y73S-8DM80^C287Z`/'A$7F"CO`"T?M`7OVR%BQA-
ME:=)(::1%U0&35'B#&374]^[;W@%L&BB1^?FK?M2%Q]-.FH+[==0'Z08S2<DT
M4GJ-ML!'P"6QT#-"IAB7"QWMT)NKGN2XG1J"02;OKK\Y^%];<CF!7>;O`=L$)
MVLE`/#Y#\2J%CDWQW!(S@+[D3:C&D"M:K)S6%$.!_FOS_:,$B![\;^(K%ZF!2
MW@!S\++^KO31\/@#4<Y]2<#C/"TU#C@+(=@CU_`P&@/`X\(.X#+>-YM+;&]AX
MT;O$+A,WH,7P<,>HXX>HWV.\^C;R;'NV2U.CY97.:7`/<'';Z/EI#%-7#H&#F
M>#GY^1Q%IZ#AD*:/9A>%ON`-7D<YGX8A2V%F<R0Y'2O&4HDYLSJ3-RN[`<I[(
M#L>>S8*&SM9F<K`)VE/2,SYM3;%B=U*!0I0W!(ID9JKIZ*VE&:T#WEC621%D
M<>M;%A4Q<C7+R$%K=#+79YDBUS2+;\.USS4G#/XAW_G_`D^]I@MGU`.CTRW3G
M.OG!T5XZO<&#/)N9U>AE(@"U(UVF4@<US(+'VTZ`KZW!D%\Z!GJ;@&-JSY01M
ML_,L_E"^1^R9>V.DSHS&^MYD&O!?49'L#N"]<B11$!X%@NV0C9J?V`D7[Y,J^
M\-C:N-I?IVR@JAB"=#]A2GY8/F'XI?3#4BEBV`^TU==.?.$$]#4>\1L/;BC_S
MVD'&ON$!4SCPD<>K.1"YV#'7C5<=A=E5K$:JP)>65'D2:9^)_4S6Y3K#A(&D;
MR#2U([&5W?[E17'.Y3I\R#-]L^/?;/&V4D<XA'3T=S6J-2T\,N,_G&^W1G*MK
MW//&:D#OXQ$2%]M#/D0Y@-S!S^SI$D/0OKD*GX\`S^"^-#/J0V>HV9)6L->Q,
M^>A:CJ$J/_=,/-<"0D.@-$=)R)[I]D()M(,#C1-"%<6V/;-%VI[L_(>C+KZ%@
M^_`R$"OQA`G:1Q^9!IYOSM'R,/J-Z8B`L3ILY$Y=O8\U[!GU[/[;=Z#0>B%`'
M[../[LU@8S]]MPDW\98A\Q0?(JQ0'V(AL,?8,R(VPSR420JJ'N5N'K!^=Y2&#
MY]Y01/-[M$-],SP_@KY-B9W1#HTWX00;\?+^")'=F@A1%N2F,-3_O]\S)WG?O

MO,E(`(,2K"]#*H9Y$$49\0]>8"4A20:%:A,>9"X8TXUX?DAQ4M>VMD:Z2F))M
MO,<A(*=BAYB3PFJB"]KR"WME'.=UR4:H57240Q=]NR>:8@C+7A-1](('>MNT(2
M$J*P(%U9/%O5'`.[P9ZH89TQK]'3B\R$!AX==\'3.N]4N`+T3JMV$%ZYT@CG@
M-%KW_+I5F:_QB$5_!"<IVY<"?8'MRX!EW7`%*>(7U&_P1)+>8#20S6!'[4$:
MZ=8%V`U+3`5"^$$0LUB[Z0\<PF6<WM[X6-P6<%&)%FD=5(O^Q_0)C?Y^7\R=<
M3+V0;`EW'>\,P_S'\,1WM.LQY5[USI]V'78V==N&SZ\$WT'72"<Q9PD?)((MI
M^G6?Q*Z7R(:0_&D^@P[8B#Z;9)CH/.IK_>+>A*&K!7)3-=K,G'\QVLW1$`2?=
MW^8GKH])GX?-QN8>K`46M?PI,Z6L"/[QU>AHA=A!!(2"1.@GQ#^1!P-:M7/H!
M!H?+2!*,7?5?X;HYVW[<\`J1E'M!>)JFZ$>CPNP*U/S"D\P)<4')5^HJDI@<]
MDJ=EXTA'_+_16)KHK1MGW(KN;-V%:KA0J'$E"\C848:;*@5+A:=&(GLZTU2.K
MA3YTHHXJ*I*,N23[)N@J]NGX7A18KF[H6;UL+^R%/IUT%JZ"%<8SY"F_;0UX,
M0*>7BTK^HIDHQ\2EIO3WV7,D+PHI2S;"FUS*,3E]$'1@RP$3`IT38HU.+836I
M_27RX^_4Z)UB+]A0=$3+`L4X==%*6GPINUW]5!E_/":6]NNTG(1RE08RB$?O0
MKFB7WY3X)CLCP!0V!11_?8)O1?MR7^[-%!^TYN'!MA1_O/0.,]SC$T\GQ^</I
M@F/A(]!5J60ISZ%OW,DUP@45'PDR]>](IF)3#QHI3OAIE[TX)).9T#E]Q+OXJ
MKYD>$FM.+_K[Y)"\R;8),7.@4R`44R6S`7U"$&^H5;'10G?;_5[>:O9VTI*?E
MY?P;91][R-Z+JHS$V?[7Y->+?:8/I5[ZE/[&][V:2B:5@432`;_CEO&-<4H<,
M$NRRP'1Y^@VU(_X"D18.(V\+[^R-G:(1:Z(A*(MQW.@?+K@*'"J^MV3;O=?'8
MLD,#86#`M_[6R<>BTA<"7[BO8OJ0RWHD00(+V%:)]>8+&P-1M)#ZI_"7H4M\C
M*!!9UTYNOZA]11K\@\+.FO7]KIZRV$^\(?%`/%>$DQ$47<&6XCI<XWML'S'&D
M.XZY@_(@-3O1^_(@/M.8WR)[H-3CAQY1O4\]P#89':/W2EU9+)8TL@CCFY[D7
M.J(.A6@LDAG/47R^VBR<FP,G?B1:[.N[@QTDNMZD6^OR2++]T3ZO$IE/@[Y*?
M^M_9SWY[)=_72CWH+GXG>WC.DO[]$MKR_WTM`?^+I)J2V]'R:N9?PF%1H?/40
M+Y,VB>('ZP^3=Y/4IDTGGUV1K5&'R>J31,I82?ZKQ3[+A[)0ZN_.U%X*'J!BF
MM\O"B=RX&]5U$*7LJK.CJ.N"A/.'UO]P2AQ2&L`_:#@(@#T/]U1!CNVBA[#/2
MD#$$WT#,0CL_=4XT14J%O9,/.Z[DNA*^\HON=8:EL,GM,^5*LS-,&Z5(-1MN1
MC]3'\+T']9"6!XCDN9`H_4;\DRZ],5WAKJ]5V<R&)6'-KI_Q0%T(/^(@Z`+D@
MDUH@A:)^(J\RN\/[\UQ]^(CB1TW'+)GK-=C($B+?97X`2(UR'@!FE@DXK($CA
M"6)P=%9O.-V3/7D7U7;*Z*?!L;[B,L1K-V^B_,Y>,9&J5[',$K!9S_QS!JSZA
M#!ASZLG7KS.(A1#8)3#Q\$`/F\?%G]DA\<K"\Q`"'Q>\8][8@?Y-CKTP'[PF(
MTJL3+(3Z3IM1A/=H*J+6)6LD`JN3FMA*XFO@/CUGZ)_H>;/B>A4.W/\.P(1^@
MW;_#^R(E_I)XWC4+ZOHFM&D@%X+HP$@85H+45VX/M."H`F3)Y8A`^NSQ+5/*M
M_?:8EAW+CB9US_U[2P4C79V?MH`1#^DV2XGW6O/$N"6L1!'=0GE6`)/D<V/UX
M*7#=TX<"1W,&N%YMH7Z$^VESR;%40_K>8%]WC5KMU2N&ZX=LOH\)$;"!4:@5]
M1;YJ2)+0V\SL'(PQ9#@%H9)'<B]5\;B+H?4PQ"4@J"SLLT;ZT827[2Q6.R3UO
M;4?RX/<P6X@,E)"621%8@>C1`LBHE[,F$JK3#_<1"&A3=/&K8EVX-K4+#T1$/
M"4B$<"7&K!GQWZ^KYS1"TTG=;@36[3CR2<2434DFN$74HQ[`B(H<??[RVLI*K
M$6Q0^+A4+V(N_@H9YW4)B*Y8<@4Y<3N%!;$A!(WWM!;!M)+XHF)/>R&+N"=H<
M>_^;BWP&NFXO]/RY\'QW%V1UPG\RLYR%SOSG^L-DW&-U[CX[.1=5!C]N,NB)P
MT[X`]E,2O?TBE$ZFGDOW&D\79GKM8O:PC^T[<`J<A_L2U'';@.;UI1Z8'(=`/
M_U$DH64^`>!',>XER1Z"I^B,-R(WP"X'J)G"U6NZ0XGT*W`(S/J)`>3OCGO,Q
M'7?Y+>QX9ZV3DI_EJKX24C26SCXKLXHVYJKO8^T];6^^WDSY33ASU%'##8G
M58:L=Q:ZF6/I@)(XK'3C6:1MY:^L6?%\[/JM2(S8F4^MRS=6`BK<ZR26#3'%=
M)=1`'X.2MD6*&=I4HCZW3GX<RW$(:*7#=Q)7#^GFE,7/6Y5Q];VQ+R:5=NAD'
M5]8N%3F(P8DNTJ+ZN>1+0'UY?H2ITM.B.OBB>NG2IK..KUB.EH$'8CG4Q>C%F
MS3.N3F/Q,NN3^7':D2%F8X9RTI[?:E>>,8_0!NSI#3SMO1NZ#G\Q9:VE(M;8#
MN_HU*:WZSITJ?LC=B1;;HN85Z(^1)3,<_2S[CS;WO.,0YU#?9))G\\N-H#Y2P
M4M]>=;^45DF.>Q(F&Z`VB/B=+MBP>C1Y`DMN`OX?TF-N15+P\56>BZ+F-<+R^
M/T\N3@4'Y]]J6[TGC$BQAATEASSC.DO+;PM#86XPBDMU?L;CV<7,PV?ZW0G0C
MNEH]M$&+G@?QN32\T;;I"O#N>KJ1%B)_?4&[,UZDVT)^\X5<WEO0>8KDI(MK
M\+;6)NS?#2YX<[KW06$6H>R._WF4Y^=CJ->M@Z+>46:OL@S[UN-Y6S*VE&<V.
MA&',?RTO,9]G''F->@<.8EMLAS$I/7FQ&]VVJ+X(W3Y![NT4/AOXC6QJ'V$JC
MOH]&[;.MA\;,+<-_(Z;A&H\QK9]F>,CILAUY@FR7_V`+WO^7ZZ;.WO%O:P[?X
M+:K)\P>KV/#:U_)8DJNC33R]@4S\N$7W`%B\>7_?QLZ7W?4<37+_KL:/L"2,&

```
M7C-8K'B&OL!&XCO!YJ`LLNFJQ7!Z6H]]KN[/ME>P=SL1S[AWIA]27H1!T7N@S
M@%ES-=O-61*T#9=EV1\S;KR6&9N+7V"%W2[*06W%.4O=5VY[@2"!/ILN[.79S
MIY72O3>,]<^W3/MQ,JTS<3+23HY7Y%ULL1CIYV'L%;6%Y?09@JMOUMRX@9\C)
M#(065M>+]KQZ_V[7)[`?Y\/>3"/7F`('UDQ#TVM:^P/LCS7!GNNCW$B\U,=H%
MHFLX@L%#Z_711BQ=!KEG-+OF-BYMGK0VR,PX;F&Z3-D5@7V@7HDNA;;W5,'LZ
M/</KMM(G@$K#:\N[GPW,BKMSL8Q'ASA8P7K9>%[UP]^\K3:F9$6]?PPW7O7?T
M(>YX^8]T;`YX'E:JOF9B\1='.WN>(MO\=!;&KFDJW8<XR@'E?B'/YUM8T=4-'
M"XST2#%Q4X\M?J^;KROOHUCEAT9QZ-OT]FW`^\F?7@\TXZ&H(@N8&W*JPA'Z]
MZT%K[E0VNYSA\IW^?]+?3Z[=N4>VHN-*P@RURZ;[G-WY1X.P@SOH,1ET;<KI6
MC;E)!K5M`#PU^9S8K/*S#=Z-9M]S#4L4S;E[<W%#?UO-]#>F4C;(#[0XV<V8L
MY0M`W/K<I%(?:W];C"7/C)KZ^MSDR>2V2>LC6+G)N@?KZU<G^3Z[A9AU?6@PL
MDXT1V]?-CB$1HLXW)_CUHOI^W)^=:V?/*"^M%]M38^>6C7(37+I6$LS(<J7U*
MG-N+W^VI-R@O@WL?\OI.A_/K3&U]82^B^RNI*^O[Z<->%8("9L?C-BYO6Y.F$
MXW//&V>;S6.S[O."V.8U;4M69"K$-'))-ZRYV[X-T3Z]9)=O6?7)8P^P+&(]N
M%:^+1G=!NL-QY_:YXW4D>2&O6&W/:Y&:]816W0\C..=[U/MO6"VS<S\Z#T8W$
M2-HG+N&U[?5\QZ`8$.KE9Y7,UOZAUVAR?]6MD1RV("XFKG=U;EA&,!\6B'LFM
M&QSY0CG/>S<>JUT'1F'C6MA0SLXYJV1,\UI\,L>VTVQZSHNQ+S1)*2@?OU1:&
MVDZ'IPV^B=@Y>;ZGWT!'"]VQPUZG\2`_W%<9(.9VA=-O.C$]3A%LP'/M`\;;2
MVV1P0)QW7-AWUQ?MK%7[;CJQ2PMR-MX4#S>SKRC;7->HV>PIV]'E@<9#]4"7X
MF]LD;<QEPG@QJWAVR02>6^[9CZ0EY_OFWK7>#OA)K;&?<,.:OZ>W9#W8D&*1U
M2#]$=VXGU5V41YR&&G?.0\H=\Y&]Q0TL>H)MN8H89:(`[&MVS;]0XIGGN=O>E
M=<VB'1DVF?*A[.R7;V]B6O0-!??G.A7ME$7-CB;G[+YG8A2W><]B(J#XA3O/D
MH)'.>_TR)LWW;J;*V)9P:A-7FLBZG.FS]+[W72;!MY$-U3GZT0]4<PYZF+[E]
MY`I]ZI+'8C[<QT8CO5NDF.<_3]KS/TT1,$6R6Y)/<:>QU;FBP:&0YG:C-F/,(
M[0T!9/Y(!%^2MRK]=G\^;9RN7-R>0A92?66V:<PWE_G-]SQEV]:FUW)ATS[?N
M].'#N8"U_\^J26!M%SY%`TX&>IK-8A];]&B?V-'SU8LC'/MG+'G?.?;[[8EW4
M2&Y\%^<ER=R6?'U3[R=?0'C[U]1]/.\G(AS"CS%7ES&KMF*/JGG*9C,K/!?.K
MJP-8F#@.'_:QS=Z]]4YJ57U;S!OSZOF1[7TS8=_[G!G,!?\H-]+<C"N%PMG;#
MDKW%>LM,09OJ=VPXN<EGSW^NC]ZFW-]UZFSU)G(\^<5H<X&'(%FW@",PX5'YV
MN^LO8Y+4>I]3&I.]I\[5SV^^%41KT/FV90-MF3YHOOJ=Q=>IQLV]<7;J/>IS>
M^JUSH)Y-=P+*.(FH]L9-=Z;*,'JA;,>N33V;=<FCH739-KN+P+)J4&@]L:A5?
M^/6(,LGWKSUO)ZQ-]#51;"_7`?:1UAKZ1*#1:]X\*2]9:S8#>L=MP]LI3#*<(
MN>SOGU/3YZGE2NO6.1EH,8)0%F-+@SQ?<E38N#]ZEK<].8Z3K@S[[[+9^F%_J
M5OYTU0)%/([Q(B-YX_J-<7DDM[SXF3RBVO/D^@`')`76BUZD7.+>%GGQ"LWW6
M)`6))?F$\.MI/GL_+7-32*E%GN1UD%&MN2>1YY-JY'VR3U*YY2?\\[%ZQ$F)%
MSUD,>P&Q7>8+D?45[R%0V[SRA6R#_)"YKO\D#8W;K4GSPI.'*N8<*^4)$LS^(
MK,P/%2H;<FGM3=B<^,HW,D<5M<R$X;!&=8`66QA*!I_)+I?]21R%<DC:UD.,`
M?O&.PK\-4D[1H[*V_4M>O\@_GFD-NO?J9EWR7/*C_M'#+^/DP?\,?]20[;\EQ
M&O?KD_MDMK2O47UA_;(;BLOPU$;G\E1Y\4\8-/G0MI#VS6?`^=G_4,1R/A',R
MN,^CT^H8%LJ,1W#G<O]#P')(UY/H@0O)JKF_T`V.I7)031J?X5K-*LRM8W[8Z
M[_1_]X7S9/=L@?2E4+^?L,X9#@A.0/[-1\0ME/%1V59Z'(B/QZA7$42YT:J];
M/CG`/GZ$+[<"'(]8)UNKRQ(YS`]B(6^S#W,#!-:+!R@5;$L5]2K8#&2.0_UZN
M6);`'[K'"G-(.,0'T;4,>5R%2EDB_0RMC:K9HY*3H9;*[+^X,\?TC79]XVQ#/
M#%MH^,9PX\7W@<A3#D4%WHJVY9$,-\@\KO;#SUYV#\-"MK<0P0E$].AEV]7FS
MG%W'^]Z7INX9-Y&O"94]&<;6L+P\\G@A:@*$PXT)[3HFBQ&3['_N/J?"VP.X)
MO,./EMI#U`C-"2.\T5T`'A'MW/57\U=KAB7@Q5^E*%]1&=6A1M609O'$IXXAH
M*@Z7^UC('Q6)\6!T7VUM3Q^JIOV5MZ]0=U'R_4%KF=Z,+3XG]>;BE+#TCZ>F=
%_Z0M/)U,8`=^;!SW!8";95Z$3HHL1P42?,_OTV,H'`QP9=!Y]!+`Y?FP'\Q?
=+MA=J\&;HZ"5^F6/MV',,KR1FB7=.89NEB02UT>X)0Y[P]ACZF8AZ63[Q_[]
CY;$,O)6-!]S8Q"?"]_@(A/;3^U62=Y:AQNMORU2C86V9R)1^Z9C#"C['I.Y;
.@$.#:'GPTL9N4#_(1'9_?,*6?8'_7-"'+[[X!T,-I??`^Q[#UXYO[P#TGS->
'P\9T*,C04/-6Y!"AZXAQD']#Z!-?R@_?KXONK<3YY-(/$+Z3'RH=^R&,>=MF
T-AZ0H1FW!ZW,1!_:9S%-B<6Q'DHSTA?X:>8_=PT(M'TBL.`*$N_U,?2*O:,H
3^^96R?ZO]Z29!/O'-L.>^X<S`^..9Z"?;<$.AF\BY-N+&\=0FUP>/)]*_IX<
```

```
M]OW>0\T4OEG-&YKY';=HX]KMS4CQ[/LRSTM`%C^<K\::N]^FS$+5>]1=\@\$S
M1Q_\7U/WS/NV\?3!#(6Q''V2?2V\T.I_2?W[D1],?COTPV4T9R;%UC\.FN_1^
MX]IY?C[;5J^E]S:FF6VVZ,`@J9!$BBO>/7<1"_"#BZ[!QG'LYWT+HVZOV(=5*
MXM=ZQ^%KQ]2T'8,UL627AP8=-]-?YNY3:#R!.>9B0TNZZZ'>-?<?2DN)[\WLS
M[EYBRBVS#8KV_$^?2O]Y$WH;JE+?XX?3V+'X)\8P]OP]R^9UR3-S%MS`;?I]2
MZ$S[^)F.'+2`?3YI\T@6ONL"KZJ>>H#'@]0.+V.0_YKZ[Z4WC6.)+X^<B/\X6
MKA/)P>1!M3U_.R_QK\0]XR/J'W9(#G;G9Z9GP49V5Z)G(_GZ+/F8C5AX#FZS6
M@SA!N8D?>1-"@YV[ZGQZ>1Y^02+D/']WWB2O(S_L/#B+$I(259FOI#&C)B%\=
ML/C/(B+BKZ?U^6Z3&4JZ,)Q_"TE<AG/AYR1W&DSTRQD-C8V77EEYYR=8Q!TIY
M(;_?QR6I.+/?0]05/2F96EBKM5O+R04/6()0*$:T%@;R28:O!OJ)W@_U$BV8_
M'YZC!HDO,.;'U"@R7*_A``PY6?(?4#67_UMAQN1PW/+U!K=GJT0'CU`L9#P9>
M_V/J"_K79Y(;.:/)$A6VS@SW*0;>-U`H\DK@D-R`=ZA=6X\S6O`$\Y*;TO'GE
M%@U,.G^%N]0_7#JWR6'^C/Y+:Y0>2N]0QY*-8]RI]<U.]0^YW)(.@JF2',7OF
MZ66-M.]1)S#[55N7GGJ*$><-G(W-/3TGGGJ-?HR]1,2J@;YR6^^HB_5B]1)BG
MK"^H4O/5MS1+SG7);>GV]1=R26;PI:GNVB0_U'^:Y[[ZBNNUB;:<ZVZFKLR&7
MAMYR4F/<\EE0Q\=Z@H5>^GZN*APO[LZXV)_"@!>==6&&*&>36]00EOU!+?S&?
MT,0:&"UW^^H.\ZE;;_V^8P(OZ%:T8Y6TU-ZSSQ*UQW;.4CT_WL+DV[U$WIEV_
M)$@<$@[70O\Y-^X<B6BN-E0.ZS@N3G;KQ)A?N;&X3++QW_"YUH(ER;?[F%3[;
M'E[+5?4,+/)INJ6RA>'%"Z&!>H?1B]0WY>H?.2+')(=KS%+SF;ZU16E%HAGF2
M.0Y><T0O8Y(ZX?[(7>D\_N*KM#^MF.7?G4PQ+0V9+><R3IX6ZX:=#<^OX$3OG
MK0$=R-H'#G<<_OJ/.AK8R9Y2><C+GJ3#Y$6/J2VZZ)WJ3H#'YH;P48?=@UZFJ
M!"ACO:#SU,5P>MBL)P#S$996P^@/5+U-7_J)4FAKTVO^Y_I!E-"SUM%.M=L_X
M4A3OF5!6OF$ZOQ+@V7A"#XG>)@I<>[%:"O#(NJ<0&)6>7S1`83NKJY>[(PMAA
M![,+HZQ/E\&W;I=\MP]]'#+$L2/Q+$)XEJ&W6RUEH,>J&(N[;I:(P;@QPBS(>
MKM:ORY"0[9>B[9SMX-`OX1@1"3'IM%<ME@%PKD5:9#RJ_#RR#T*J'H>D/Z'_5
MEF'U$[9F\[GV$\+HP7?A9,92<+^&SXW+]V8::+`^G^\G_!J(\&N'J#3I?X9(5
M#PPU)L6(:O)G$PTWF-90:^DA^TXC'Z^H,T^<'%#>Y$`3BQA<J\38+UC8O.#K.
M[1!V\K0=RZG_H'6T9#FHYA0.868K;$B;HQ>XB4.7_L:%\?^/]:-@U"!/XE.(+
M.T2(/5P=8C^$R5+!@@:3$'ZKB/!_+C?J#BX]ASA_UD[;+OC1FV?;4T/.M74O/
M%]0E^``E&:GK>#XV)BRQBSD_AV).Z<ET(FX)+HDXCX^RK^*`LXYVHCG7O[A&G
M]O^O")=T5AV)%)$FTGN_&NJ%O/>>JFG@AUQ]#4&UCN7^/M2CHK@/=_7U7T:;U
MQ0_LWN9_(,55P9T78S^&D>J2WR+CJ$&C?T?^XB$C9"RIRW$1OZ8$5^HB)@J*:
MD11S+O"*P41932[U+T$.\7E@'B-=MKSLR:XIP5_??G>X`^)W"+H4[F?WMVJ/[
M*(BHJQ:5>9K#A&N_&'KC-N4<;ZY$BJVHMA\OJOS.6(E9^+VG.G+X3]QL'>BX:
MH[Y7>N=O#>:`-%3WC'JQ[PMF?2EX%K#@FBUR_:5E>AD5SZ_T8:?<,C!+LEWK[
M:?E,KBRUA6B[0IHKYGGEU<%[]&R@BD24)SK3J.7OX*W.[=<T^["E-!1=-&^Z*
MG044OG;/_12B%IQ26UZ)%-:AQ@7&:T-).X_V:LHTK3EIX+O/[UK"[<571=ST@
M7,Z+G1V-.0MTV#/K-9&SP,G/SF2K?7Z+WF<,_$+K%N:900K*#3[1#E.BZ#1;3
MF&EF3(K5X2^GRG&14'1MBD`;(OBPU9DQ]J6W`I15T0SXJAB>4>@0?298$9E:T
MHBQ>0E5HE2)K_O(VR)BA?@]B5>\JB7&,B>^)=^2.B4$KBX0E#5-FP80\Q'4CF
M0]#0!Q"'@KK-@D9#&[F)C(IC/`E\;/'J63ZHE!LU"1=![B;%%$B()0.3Z7XB(
M:B)0I&2PCUV[].H)===B?"G^X\(F[J^3K;7TJ1GC1*W9,)<T`6,5#&`LX6+@M
MQ2S,2]#*>"LCQ!GT;Q';'9LR:'P_>0CBU_Q4>H$J*VU_*<KE-/Q-A4A[$V9A_
MB97=59!AB7RHE\\LV9-$JO-"53+(MV1*<#[J;!$W1#+$P?T!-B]IKL".7^^M:
MQQ[HC!31#Q@\677'@B5>RF*_[M@=[Q&*$39G:AE_C_!$TG$$V'OG\K(JS';Y9
M&:&L2^DV?ZB4!SB5NI8UW.9I?N/:9-A&_I#J<KJOFCZ(FZ-"9S/O)BB6V@*+K
MHT=X14ZK9'<%&C@XO]8I"8VVE\#?NB+ZZ5=05'"'R?Y??ODN\[FTRQ8@NQ<:S
M-F*+=<?(+932/QU!?+]&2W6+[E`^0>])_(-B\[9I(L/BPVC=-G"Z*MY(PC6)D
M&M8-[(_*&?+P&9"*!'+#-1.&8>EJ^(<A\!K&OIQ>%/<->OX>.%EV8-CY(YY4Q
MFWYJ'I]5#R^O\D"AYVT4\7923<NY9-R:&?.ZKUM9E&TF%9AP=7K(]K2,K.%/E
M@62D_<<\-Z-=*A!R+T-;.EXC7TEX][(U$I[5#?)40&<N*)+7>^R<*,DH:GMKV
M/*GGN/_J=_R/WVSLV]E,3'W=A'=+*6)1_D;3IX9X;5E$W"-%6KC2M)490&F/=
M?+<2@_6(\GK#;X\$*+G_^G\3#.)FOB+9PU*-)^B.4<G%G%;C!)!'C6$4L,U2X
M$0\D=+MXO_[^P\)'%^1IXPOH'+9%_HBT`_-%PA_`F=-0FT2=B)DG/HC,#AL(+
```

ME]K>T2>_R0\)GR.Z)E,2`^MFB*_:ND)BMS$)]`O0G>I<*)_")^.^31+R>US2
MH0/Z7F"<M`AJ70G?(Y@GMC?AW+1-G$8:M1:8[9VUW.=^I8G_?U'1?>OXP-4I
M2L(S>3A$W!\SAG.(MWKB-?UB+N6K0&PO<(V#L?B=D0G]%P!`S\:$.LC_3TB$"
MGA?D/<N/HO6@\4C#)'G#VJH63D/'63K#V=.R5(#E7)TW[7)K"YO>#E;5_/@<%
M\5*_]9V83X!<H39.NI$UN8_@Y36<#HD=H5MPF!RRC#9X>C6&6=E-@9L])5NC6
MS.&/];*10?*^]%4.B+C8JAP+C&(ZTKOHK1O%3Y7Z<R6SR+N`%6Y)[RO-US!'X
MJW!>VZ-<X5OO_>X0FKP51:LQ<N>:AY`=N&1P0V;+QG4&SBV?(G%MO!U8VF,NQ
MPZYZP=.25W'BK!Q:1W*%K$P9IN,9R2:N?U#R-*3"[,LT'@TXD>S!X>S793V'[
M!VL."X;5KD?Z0:XO0VPPJ5?L:'>PP%X(77Q"F$*RB)O#8XG.H/"O[[>"V"_KQ
MW/4[(Y0L_'7GYNA(U7;HGSXZZL047Y@H:2UVI9@3/B0MYA,^06@W!,;["=<^:
M:#F$YOP)XE.T^4*3-8IEZG*@@S0D??3/$@J_%6F$3\P;@C_0\@2F<@EV#]S;2
MOD*1^D=6;PH/]1T!/2OZ5E!`36O]4\"1.UP0JIZ)"G-#Q"D_K)1.HXPD*1O42
M7R!'"Y.R'@(_YO*$M7N91@8%'FA1J;^@3TJ$]8<$UI0)M<,HJ,H`IS(4V]@4F
MY[5"A)1ZA*33-</N),>FZR8"TD]NGC[6R20)3]D7;X@1R'10HLL#";?&]OI_3
M`%"2'8^KG!J"DC<`9;Y-0[D[M:8WE$!$/H@U).%#^4M\8*)$_E"CA]7MCQ11V
M2A_5QC;.Z8W3JS7X5XLWEMD\[:$T@6[Y%7.3@ZMD<S7&("8>%5U+V=:$`V]YP
M;T#\`]GF=7G/P$'9;?MZ6+\'L8[:79*V#`^HVL>0?HCM%Y![/6[&]&3;!_._2
MB`?:`?IIUE?G0#8,#[O?!V;R#]'6[Q]'CT$&6AXG/G7`ATUH0T@/=U@VG&CE&
M92Y3QUG=Z@&A-**ZD'QUO9:@8J;5G;)YY;PAFEES^X`A?U"^CRYKT[RG;%B,(
MG7<C9//.A+9N'MW;MU01RT_%'O:;PEAT6V?ABMMH6`P\=EP'?AYX[X0`*<`%'
MP`7$!<8%Q@7(!<@%R@7,!<P%S@5P`H`>82UL:#$ME!\``*)E``"MD;06(``(S
M1DE',BY00U@*[<MD<;AXR,`!WB;_(;B[<QH+B\.`,*\A6<=;YE]=$'N`!1(.3
M$CB)RP%GP+2`M8"S`6W@5CN4U\FU:=.J(JP#V>('MDV;P0?8.7&$&:MA#)Q`$
MA7X((0J6/PX1;Y;SB?,$E/%A*8QA(+PP2H(PEA"K6)'+(W;7((IER"+T4(UD9
MR^"+1?!L*(I!TXGJ-P/E4G?02:6`Y"2X,'(4JF@Z=4@Y=(H5C/X5!L(#IZF2,
MC5%7)W/E03FUL*@FA28T)Q(N`$T8>$PL3F'9F#W()0;:$E*P>,<0TA"DT-DO6
M9U5]$:AY:408K,`X$M00,!VA4=TX80$D/=Z&`M`P['&-H+X&/JH`@PK.B764;
M=#(_`Q1?$5Q_:YE[Y!#'OFYED6Z#/0%P*\`9IN<?T-/,,I8;W_L4@;U8[O#?%
MXT\$&B^P:UW-4Z<Z0*O;.+J6GS!"'SKB@6B#[;RVQ%7/N/_+25S$GI!B0#?2K
M@5&Q*+]`S/^KYX$VS)YA3-R)@DMY1,6B6>`SY<?'SRND3>CY]GTA"8^L*Y;X]
MEZD"7[!<)L/J#/H:L%M0>)K>):6KFXVB,<]T2^D=;GD4Y%:O4K9Q*39'C`L=+
MO0-X":9VC!)G$3+#N5W8)G_!TMXS:N4"6M%$?-+WN".:*?=W.LY/4(:MWN0A>
M^OA`,F!6[(/\0N!,`N&%ZPC$UTKVM"[W\OA!M/UQB=XH;AQ#1&_4Q`G`YB93L
M0%(I=A"D0I-TQJIMP)X/Z8\S::;.$R3&*6PG#R+`U$I!#4N^0W+;Y4-3W8E-Z
MR&ZJ3IV)MF\$VOF2"DM^J@SGS/S.FGT6#8X:#;0JI0.T'<-B&9"M+9`<,N%=2
ME8%84<;.3+C)J`=1<J*Y"U0;Q<:/=A:R$_X6@6$,(,\Q=C`VXGBT-M]/&I"OI
M.]P*Q]1-7?ZT0Z)Q9YC>`AK!KSJ:O,V=<+>G%<2!H&Z5>0NHD]%*&'E[&N[)_
M/"!WZP0<!8ZP'4PP8;E;X6L5!.M=:%"57D4G@:D*QJ@D:0HKF&K<XM)(`L:E\
M306/571-F9]*AW<-U.'0;)R&QC<:ANZC@M^D";/>[#4Z=(VS3M6S>-LI[^"0L
M?61_=CVC[LJ79/YB#-<10N)"C[5K7BHW9[&;4F44`C$B+G_*M9S3@T!!HOCKG
M2TA/\[AVAX]?5&D$'#_H&XL?N#J+Q44O%]JGP3TZ>0<3XN@VO'SB@^)$:BNL-
M:!'47!=L4&LG-,V3_D/1&T_&">(+GUESW3#T_,:QQ`(C2I_:`EK=;\+V_8B2F
M&(XAOQ@%Q]UZ>EL'B)K(,:C3$><KN6OY$VNS2=JEP(P3#8+DC\B;Z4.$WKI\O
MQ!]@)^9;]2:?ZO%XE]*\G4S2O<)5%5'P7R70)R%R")<Y?--<V\/]O2[#B@4PT
MF<8Q5^?4>]#LID7*"DX5E1*8H;)EQN-=/$LP%@5GK<[0.`&,58+@98B4P03+M
M[XT.?YX\SEBY8F^A-?=L@_HC1OWBVU%]^";797X[(J(_!/^:O<B'7M>"OTH<K
M8"W,X"GFD(KSTS--\>Y$AA-35-3`F4SZ.=&S*_ME?Y(J<)$*N`EW$)X@\,&(%
MS9@-&*)Z;)2MBH86%^]U+8*#+C>SP"FZR[0SO@+!'"@LT`MYPY(6_<P+:5V[4
MS_P*CH2`J63,G"LS@KJH3"N]:_L*UCL9Q\A52,PKLPT@KO85`PJ$P0BH=5684
M%,R'*(I!NHGV;08;YQVU0QX=DV)#`[>6Y)41[7))0&FBGI_>E606-VH2?(RA%
M0PB7K3'/%2%]%[TA?]+)!F&;>(.;)`=GJ!9D0<@\B9\0=QP=W7'.X.[J)6D'Y
M;S!9H'#Y5%IO=0'R@[VE/\=Z#IL0#M)E`AT?;!P#OGCO?'?,*G-P5-FGG"5H(
M\I5";>`UN%$%>KPCO@K-)D@J,GE"%CDLK^]^%OIM5`L"$3!96YDUY(,B]4`5Q
M\VYD#*+S-]-!B6#@"AF]"KD`5QXD%[XD`"F'J9,"O;NZX5'LSI]5FK]UV?4Q?

```
MFA97=TJ_G^`7I7JP,6W2/_;JD&/VX9I.K-!IX^TZZ$=?OU&NN.R@[M"QTX20+
M/6?!X?7;A4![HO_4!DWA>F#VF+7%]L'[K;Q@]IG7!?"#WR/:6-X'BCTB__P_W
M![0JFP>SV(T/F=![.F=V&6!#>0U)D"/6$6C-SUHB$>Z=^"'0,LH0YPT*>4',C
M^+D!V\%;)<#V?#.#V>'0'Y-55F\^![T(+P(,XA:8>:(0@]XULE%_:FY!5W8N@
M%3(=L=>(68I$M5@%KB:H'Y-0\:!;O2M`+P\Z8NP877(:+PY"T-BC0+'E(H9<Q
M/KD0^Q"WKBUCK%9-UA;.?*HNS2V,3,N(@7(7B)'CJ@CY2,H8BY"A$TAK`Q?N:
M!B8>R,;R[^U(*2%G;6IX85CK*7"LUEN!7AKR4-_4K1+45]J-PV[H(@3FQLN,U
M;"<VD%N3C:,]O-20?,9[0?>,^"$-O-;&,P/S1!>,[Y!5$7'"$\@T@AJ)=DM2S
MA:P0F1R\/X24J$$I*5!J4(4Z"80TYFT@[N2O]SW$5VLX^A#K`;!']:7W>&?(1
M#Z7GM).'(NEYS#_2L)QA)`A2L+@A2CD80Q&R6KHA;(AI6'A`A2TH^$*7')PA.
M2]-80I>GRS'5.A'<O(81&8Q@\+"6+J^):9_(!)-B`_--<$*:DH"&%7@RIJEPI
M0IJJ#DQ#W+<T\<:=X6><H7"P2SO"Y.>N%TDE>[DP4IT'!3X4IA2OR6<?4Y?@L
MH?V94*5)W*:PB_!:W0V%AHT%J4XMMUH!9J<6VX"R$?JPM.[XRG"NN<6"IWX#3
MN.T4IFPGKD?9:%"?Z,5YV<@AK&:%N^NP(<&T)08*T@XSO!4#*-\H8G5(A'6Z@
M^X1Q:8C7B=1>8>/.;%MZ`'?2Y*QX#Q:TX!#6I`"'-.M(0)9BU@!!<PV."',9/
M4.=$\PA[..P0]C5K4"(YM>P1]<DL$0]J(#_8)+@_YB<8!Y9&!ZI,;,>8'FR*!
M:PA[,^PA[(JP(`E/:M-A#YH\H"#W:H4P47'\&*;;4$^'!WKDX,WX)NIT7-?KF
MEV@%D/6E)S=%WM8^-D80M?E".^XL,^^6Q!.":28"2=[VD@+63&+[+EH^*A-\6
MI@4?)8^9@DVY6R?CT7,0B#A3.);28>K1O#:P]\RR8VO&7&#!_P)^]4^(N^^4O
M"!<O!(B;DE"I3P1M[?C:3B'?D,QTPY,JS^%]C]WPI[5_;9R0,0UW?TC0VJ!V\
M:C0=D>ZW_T\5YO@%OPZ8/Y[X;V?4'KJ)+1B/5^A57=@&1G7$]E!-=`3?'J:+;
M[_6C[.,_Y5D_Q5QB"9[H/!WJB);S2+]3;A?WJ['/+'9JE/]">->E*#`MKUO#U
M@NWQ/TV`J8RN[?5*G6Q38P=,\/2?(:>$+/+[]OH-]B'G$.3)M*XLHA!YCC*4Z
M]@3Y_O9@4MKO!+"77E1=N->`CO1N^%$V[L7??)(UTKG$5FG*_:(EUS`E"`P)G
MISVD)7,''MZB)G4")G;O&:TWT'NJC^6XF7<_(/S@)__.N(\J]GEK`D\7I)]`3
MG(J03!,TVE$)D^?E%"!V:)ENS>9^*]13)>=O.3$2MHB?HOY7VJ)Y]%9@%"YS)
M],+JQ.H.&(G%>)^QP_YN4\ZJ!,4\/FOO'WL4@:?U<PC,0`6R-SE=>)0Y$K)QW
M8?_:8(P_>:I#JLR&X+!;J'1S0*A/`7P<^*=P/']XH#CDOIST*P.;MNP<L)7_X
TKQQFXUD#CDFD=PC`WV23B7"^-3->V&%%;`QXQO`Q0"[U3<K7X(FAAEI*F#PY
N2@C!B-/36]D_Y^8&!G$^^G=#82L4W,AOR.-%RYH\A3`R[8T\HD%5+2&C;)K1
E*8O=?`W//@VIE8]5AG7^U>H<5)JFPF)$P6GYW`P,I\E2=+#)+9!HTSC9]OR1
:2IJCPV;0+5+`U4T9-YF!MK5.@<0:TOS<8&J6PX'!!E0#@'6K8=\_U;56'-F(
:@T1H$ML6^U>?#;=+*T@TP2<HS7KG!MEX;:/V[(S&\'/8\]]>-Y0']\708AUN
`W'%!CJ[+E#7Y,D92OLOH[W-AOT!E0U:LEF(X(GK<"LM'8>6'2\.[)7`WWOW1
3HLE@TX@Y;H./$.%ET"AL@A/6XPT=`_X`+PWH9OAW@GG<L'90RN1UDLEHV`98
Z!,7_3</AR@UX($GJ9W8)F1Z\^H)!X5A[U[60.Z/4TU\>F.K%;M-E\->:8(-?
!/6+7;U$`T]@(U^P'[?\#_'_F::'?O^S+14'FRL!DSWB`'8@X-,:`@T9@:V(8
I+]$G^0FHA^G2@06"F'\TB<#O<5_^1VJ#H8C@0(VQF#Y_2O">=(P;%B*(U!U?
")J2YIX-./Q'(/WU#[0P0_BXA$/R4LR:Q&=IGYD$H$<1J-NB,,>?9MAWZ:NE>
;1'+Y^U=XK7^*4*K'V.:L9Q0&#@#UOC%F*+Y16(/**H0?G[@#QNH>3U-J#D)K
.^5XS72#-:"78CW^$1`Z?5Y,GX""OF$#&>,7$+[#1.).M#X_`?Q]"L0OX_X(1
<('<0Z(UI"._[@B&.U&6"'-;2\OWT(X)?NP79LJ4;`5+8D-DKT>O0([^>"1=4
M^A$CZ[1:1MQ$&_0"(K\_L,W+0`(&4RN7*2R9)AH5V_?;PI!5ZUW,.;#DQVCF
H!B3O!P`W,8!`LEMJY*"5*8]MHQR7%Y)R<8!D/3@:&'&Y+89S&DCQ4@J]<C<G
@/,KPFAK*T<(>]2S+T'5NC>$?-27`O*^53W"P:[>W!_"]MA8-2V!Y00\+X8+5
2"&"METB,->-,F:\ZE<9ZF&YKP-EB4U,9?8\#>9(BZ`K6H#F&-S()`&=1*8[K
G!F%J?@/,Y&\&C\"(JR?2%;QHND_<8YP:[`QX+E?!D66L9?5B)SX^V`RN0T#]
42US]!EG"D]5'PC;(E9`!K[/C/"/F^2*SX')P"P-+DG"1G!A:XJPUG7(]990&
@W$&7DE]4SLY`5AE;6EYII:QH9PF^+OG.W<,`CIL@9.KT8OU&#]<KG,EUV@P.
8V4F(83N_P88U9C^V3]I=$"\:*>%P":6SX8AVSRCX&81*^MYX!SQN6M3<,[7`
^*5?M=0OM0,9>3A%V/\Z4=%@+\%ZEG_'T6[VPJO,UBLM<(.?9TTR<`O!:J7?Q
$(K^5\I)T)+\8%`2PH@X4!P]`Z-J^W20A/I?RM1P-?F%)7T)[":]7^A4O+H"S
RSTP+/:U_1E;'<S\%^P^#'2&>&"_3>%O&:%GMX6C$-PM4O%L7&FY^7`3'Q&Q0
=!,`'LQ+`I7#XGZ^"!-:+3[>/4M/6%7*E7""DDX="<5B0$V\U7.]*QM":^XNF
```

```
M`)I5AY(,6;N!2*HZ7.+5ERU])41$&8I2T,Z8?*0+W^A>*MZ1.-_@HD(8;'R>0
M$(KCH0C?8'THN3.P8]!XO"#RA>E2E@^TD]^X&Q5IA%\TE3W`V*A_P-3V>`=%F
M2<!V*>N+)._Y#NL'10/(LW@Z*.@LU-%/K4?@0<;"$=>8$$H&5L7#-*#017\D)
MS79J)JU4HG0)S>WS/1[S"4B:*;F@IBB8*7;<]/M0BDP1(+5*^1]X3NA?831.E
M:`2B(;B7U;1:=5LJZ;D;=P]$>X#PUN%8JX[@]1JD/Q+>`_46!-NMOB8T30[$K
MZF`?`]W`P@_4?8/?[2.<AUWP@ZQ_^!?$MD9Z@\,1;X'@H!SFE+?1W%"(./@G^
MZ5BQF%EPQ\AI)S`V>P-R\$'#,NLG2$T-1N[(:V&F8DSPU51HCZ<42WI<CN-$C
MPDK?,E*#_#PX@DA$:$'AX<'QDA&-&0CJB;E(0DX03$L\9I^Y"B%:$*<H`0SG9
M'P"I9G%64<E&@#T7+X"WL*PM*00?QB>4T328J`-'LGYWZBE$'P07O@77&$A"B
MT5^"$D>E(?&$^NRIIHCKC]H*)'(E!9'RHJSUY&YJ)7IY_Y60>T$2"G[8KY_VF
M;T\5)?\^:%:>!X5Z71]?2BGD>$FGPE3E="2M?7KEN$WRZU!5S_HS0JIG8JPTA
MCXO^`Y#4Q4(2*VI)7XCZN"6V#!\TK\;2;!+:"FO0:A2G#$%/^G6X3#Y'!MMOC
MTY3\=#.E/X5SU#%?BT,K"13K_#"75#<89OX9&6Z0;X7OC)]82"M0F,*EZG/%_
M=BI'?A/&[L=6S?!];M?Y"L,W!U8+V':A?@.J`>`ZGMZ#JZST.H^UXF![-WX/)
MPR>V-SJ@?6!FO,#;%Z<-LUO0=36]!U-;X'5Q^P'9X*SEOADZ!&"&9.P'M2OP$
MA21H.N%$`.LG(@=5##!U+[L#KY*<Q('MB;#M`;4TH-X@0-9;:AQIJ,'4MA@Z0
MEL0',I^9(#[Y;L'R;NC<RZ'"%+U40XG*%PPN0)U/AQPV`3@C6!SPC7':0BSB<
MET9.-AD`4>YW\3AXV*:A<_Z/D4W,P!;F12*XJ[P&>-(0S3N*,_\\*#Z&:>QH*
M9AI`S3^\$;F[MH'H7:U^"P.];\[$UO9U\A-V)Y$SHB$[YQ`%;E7]!:>BM"W=3
MR"SZAT+4Q:+;\$_\_)G4H79BF>?@@%:]^(8\4RBAB]"<_I9EE%MKEHM^LM9ZI
M"]2$`M3,86IAR%ZD8"[D8+M?D099GDW$B9K%"UU&U-&#%YV_ABFGKC%JB8R`6
OBB%DM"V+U="V5%$0^_O?[";L?0TA3/\^V8Q80Q?,0@1LA%NF+$;++L$7$./%
EA)Q!,$J<RLB$<QGP-T'3Q(UR\HE1Q/,I?@4:W.X*-M$04Q('_2%2$&B'8(Y3
$.P19.96/1.*#V``2C4W"63?@(L_J!N(11Q%9Q?8PE!QS?`FH?=_+^0BVXK0W
DGRB7$\P3900`GWQ'?PGI+UN+335!!-+N_!/4(K\E#J".$]VB]^UIZ(4UD:S%
$A"";+@D)Z^4%V$N>//8%20F/BW,":C_)^\(B7<02:@'C`_#666[#UXQ'`A7M
9:,9:(4P^P2:TWF).$U,/#`G8H2@`C*@)T[\A/SCS3"=%MMFD''%6VBIO=J$I
E:G6VSLC"\X9O]!BZ@]^-5\0I@NJ\"X>F9DF&':'^B+<4_9<&WU&UD_;]I'P8
WN:1"S(!O*SD;@56\7H)<8E>TLQO1Z#7>/T+CXK[!0#*2C^\J'P,8JI`P:CQ4
A(!?79[\L:@8*NB\2F=EX&3E%?(?<_-7+BC"^',S;'OBLOPZ0O%PYUA_(;QD&
)&-84W2PO`T<RT]9*+M\HC'\/4'8T)+4`SB23JAA\)RI#H3%61I:]?%P[#A^'
`@Z0S@K*&D-C-L;/C+ENOWSV0<"I35\NMAO\1>TVD$`-FED3@MO518VC0XPOK
^9HA*YXX-5]*8D!$?C;T[O8+$+`8&LQ6%EI(PML2$%];X9.O^*<Z]X!],;/4[
>16),[/\)^9!^EB%!0K&(=&!]Q!&.'1?Q"6E?0;3L1*Y!%E*0O[&RN1T,?B1V
3J][4P7%AI5>E]N_-,59VTWQU*'%Y<O0\!R77KYV3;2E*)BG>A?5"SA&FB(N>
3_>,!>TB.8K%#\HEWBWX1HR0DN+15<6'LM3?%^>@_C&0A?BI#3&.\`X>(JF`U
BO&2R'^V@81ORJ@T*,ZL->05#3,1:E61'V7A;GHNUY2P'$5$3;M]&0D;ZW%"I
S3FB.9FF&P(I%ODMHWH2?,7D@KH`KR`5F-;ZX=@O@.R(KC4]A(#\)KC7VZ7'H
.<MK15`O:8762B"Z?A:X_[Q4+O6+09`*>YACN#2H8M_#&Y4Z0;<2_`S,E,G8F
S[]QI4!K-F5#7)(&0/C0]09?U4-H/(&Y_>6PSV";.S6$T!?3^=ZVZJ/[!)/;!
"HB381*-P+5#M5-^D/G+#]))<)[/2!6XPFQ5XI9]"UJ>\D3'9^?KM/7`N[/*(
:^(Q!ZJ_"7H1-]A*[F^$8LXAXS:0;RU"&QBJLA@[9&;%%[5&/YE[:FA]<$VRH
V#EG75LOI2-[I#T&X$B?(S(/8U@R#&"R&C^YJ=[3/;6IXF1_343H=Y=K>H(<6
UKBY($`#":XO[&>%\^9UB).J;1@;6;X:`3*&D2&+S=.P'<:H+3;>##P*.8MBO
.4*"_-_C]*0/&?,A.,8),-;7:OG,@SGMJX_"<4;IU)OF/\P,V]H1FN9-Z^!/<
!+3NTB7[B\RG(#PF"PF$O\2N4)<%^#_F/TKS]T"9TMZ;^4^;:FG^$T;;*PL)(
5R2<'7OQRML];CG=9ZV-A<?I%A5(L/J0]BIEGK3*DR"Z"E)L\*@_JR3AEBK@A
]\(VRN?-4S'YGI_(*=<%<H-D@05$U%UM<6<T^ISV]0WBM_S@HW["LF>_CHGB9
PO>9HVRYUSK:U]M)V`5>B2AV@$QHD(]R+6^C%XOWGL1V&H>=-YM_F<M%+3]ZC
+'=-1`%N=%C7?@5>'PP(6O<O@SVU`&^;RTR2TRG_\DB\$2H"PMK.Q;^0M+X&$
/N(G7`H[LD7]YDSW(6'1S9>R-D-^=9YW?ID/FZ1_2M$<T7Y3\6'B$'&DA`!,$
:X&R6],V.+:$?@+`]P)`DOB\^DNZC<F\F8@J+!T6'%<P34FC\FK=LQ5(^/"0;
LDK?F'L6%E!WCS;2S@+&S/Q-F)'9Z50>2&N8L'D8WPL>D+';M"`V^#S_R_0,2
\7)F+61[?UP_NA"AE=?3N68DNKL$O#(-8WR#%*_LS*"^B+_=AD0A_I7/%=!=P
```

MIESJ=H\M!YV$5U&@(TW`CU5U8^A'Z]A$*=$2U@[M";S'@A,H"&_K"<=<U&D9S
M<U<$#BTGN!();0$$N2]DO$AH`8+Q\HKNW2&-H1'P7#8T;+W:D4X!9W:\1NH@9
MA;Z\$WMXZ#/`)A8)[Q^>";,QNT#2[RC]'7_H27T=RZ%+O+4$A;[P2^=<V:&"D
M3P02\OP2D^$A*B+.PP9;GO3&_"4A\2[Y;Z)0?4HZ$A_<G:!X(";ZP]&N8[)PB
M1>]4(EF:"N-6=O<[J&M>@N^HD'?),YQET-U>#\F?!^_AM=!=\,>-T>XAH5=<S
M4Z"7KI^O[O=H#:A?SW(\LR"CT#SB-%3@]]T=9U9-<B\+`T0Q-KU[#H[T#!ER,
MK#_<X$1PU^5+ZC0G6NL_5]H](7#K;?I>0J'QTX(7):=Y[=S'OV@KA%.JNZ6WL
MKMMUVQ.P:V*D9?4HV_+NE5OBY$TI9WL"S2]848Z/3<O=TMQ78G\5W`=(67SC$
MBZW7+<3,.T1&6AN*K*W(_/QN(T:URL%&/2LIY>DWLQI>&J5@=5*GW&?XT(/99
MIXA\8GOS@SP[#0]G*PAONKXU.=1I;LO!HDRQ@^%QPV*]R:UO8TLPB?I\S6;>P
M8Z9@T@H/9OTL>V,5A/+`EP:&/^3IZ7!UZ>Z,$>B"N>6)`Z9SXO\M4E]+L3_1)
M*4:\F#X@[A.,F?CNS\YQZOV'[>&<B)UD7>B3I>6I%W:6L>_]Z='S07'[#LP.(
MQ73Q"SBG^S?:3/BS\(-%:V&@LC7Y1?UYQ%WP0(OW"=7,+P;`'XP:7:K#H8E1%
MPG#R7I.'`<_T`)ZE1R<[H!EWEJE>F"C_(H.#D8+!]!VM]I=48S5G:A>49\S+;
M*]W,_Y+I0MI;0C@0AH5V&="E_$AVY;.SGR>I.4IF>T?=!FWQS6=`ZOI\RV_L
MRH&^U&3J\)`+62Y[0[?L?M'Z:T5K8Z'FDSIR;S.AO4Z_0!H<G5@OUHC*;_UU+
M5#;<%_N?_B]V__YA^><I5(L^#Q_TG?T3=(/@/#)VW[[,S7^N&K*8EN;2'^I#`
M,'WM3[N%?I;+^!65L,Z/,=6=#C[TEV.AEVT;/3.CF1[R]CI[%`4`.MDV4DHON
M>2RG9(1F`3&3P=N52U.SXGJW\4`I.[;W8NK;IVY]'BZ[19/!@NP\/(YX"E"Z7
MW]S-?W1=;2#)XTDV3Q*?9-8>#-OM`L/#DU:+-)WMLOP?CK(^VV3(\3\'/'#L^
MGA_1I8\'2_1Y6+GB=_<<;O7^4N0;1DPJ/$*0X!V>N-_M]YR0RC2^TM7VZ,4[1
M+\`,1$699<+?EHG;%M++\!.6D*'AU@'EQ)&>`+MZNP'@L<5'A:#=CP\(&>%\5
MV%>?;C]0[VVQS0LA.*-O-E8[LB=G<T#;)`&C2QW;P;^EVM8C1,LSK^&5EJN=Q
MD.(LZW76?$=O;`NMUMCH;;G9T^VG@JGQW+BU4\-X/\\OH.=(5G6YU\;GB_ZG\
M8>!2MIX-SC.[B?)W7W<-)>8J)ROH[HW&[#O=YN5O?A*;AW^D%Z7UI;[AYV:J(
MG=5$UJWP'6)E7#F9]-]IW>W+1W=;O(_8=WD.8ZT=TDF?G=HS_Q'\R@<=UTM?T
MZ@*G=WKE0.P'O\DCKA@_IL"I_],$*2MIE%1U5KRV6[7O%IG3_!YE8ZQ]SIDH\
M4EF2WK3=SH%J56&%\C.FG/9X:^V^XZZS-&8.D3ZY?KHC7`LF"`-&;:"]M`<$_
M36KK!%6?;!),$='6&*VYLP%*\(ZM,C$=0^=6T(ZGHK+.A@_A>^<>C@JX2+1O1
MYE:PGIFW79K1P!^S::NPBQ-=K8LL^FY:P&(]:TH;6_ZG`:JK\;T3"PL9JJH4:
MQ&#&(U@,;VG!U>]S8>T^/;<V&<+U7$+)\)YBY\KJN0*DP^5M.:-SGX+*[HWH^
M<KU&\3*\X7>]2`=<FI.]9G[5_4K1DMHW:XUU>5[`9>2")Z[OI2?(_<T"KLLKX
M0\]W([Z_S[$]HM<)0C'4+OT?I"JUANYYL*9IIPOC#[%=9\)345R@38C]')HTQ
MWV2KPEC]<MO;:@07MMRAFZ1AONT^H_("\M^'7X?'PBT]K9NW(3/Q1%K?9)\V
MON6=O*%3!,O8(&J9G1EZ?(9D\YYY&IZ,WS]PW:\LM=7*\LO;3`5=V/_GM.=<N
M\ZS=L:]!-<0*Z(==,Z(*\:%R7*>M],!Z^9QHUT0VOQ3DSPL]6_*3]5TP-P$?H
MW.K\BWR3KRAGEK^D5>4+N=[3>8I-?_''.5._YU?D"_V1^QFNR,,"O&]!V1'6S
MF_S]DB_W&_F;OSV^6MSS]_G%W'T;U=G,\B]EP8E3IY%P*0'UWGAN-IX2UO_`-
0(KB$A_Q<I(/J3_>S:M<T$92MH0%3`*G@5J`KH!7L"V(%NP+IP*`'BTM;&@Q:
+0HM``!W^P``<9&T%B``"$9)1S,N4$-8N%?+9'&X>,C`!D\1HS&XNW,:"XO#9
@#"O%UG'6VR^NB#W``HD&X1Q$Y8"SX%I`6L!9@+0!:@+4!9`60%F!9@6@%N`]
*K7(8L2#R=)FM(FM<)712)]2"[`8?X(8G1J$L+CS"[$>;F6QM3:Q:MR,X@)KL
*#F+R5`D2],!B%KXG:#-(&WTAZ>0D]OA),T4V:H&&PT,MC$2*D"PD.>'J-&LJ
!MZ!O+8#0\&W!I"[@&BB(JE$DQ!H@VGBF],Q$&OL&KA0T\RQ1$0;R`;S(RY96
.S!IJ)AISF>ME(":B8$2:,C2*ZH^ILMRZ%&%*+'/P;Z/PZ:GZ>_E_+J0P42?'
!OL'8:>_TGOZ=/]+O=9&!E'H!"^#?U*^4/KY3.'/J)KC9CS$5DTLF*TL'I5`J
'IL/LC@'R4O"9&(\V$[)DAWK(P$[/1#"GHS"`N[3\PDJKRX,!=@PZD*`P\B^Y
=R/<.%(SF\)-EY7X@$'@-P'$H-0[CAKF<H`Y[\M\=&;'*R_*/M)^807_S%%71
XVN#*=J83#1:Q!J9(BQOJB-@N5YY4GEPOW7"Y?UA?7H6GA<#H77GL+B'T+U"A
T+J(6B@N']L7(-9A).F'Y>9W="=*-;'P$PXH;HGK5D<J:[`%F.0D0F[%#Q/SS
/3-\?>1\%C7/OY:]2X&;QU&K\^*6KU^\A#G#6!T>AMF,[,RO`TWQ,;O]`=UR*
[Z78:)N]^8+T[)#4&%.K7;?AD*O@'8AV[;Z/AN8X<.ZN\'?M\#.CT/.&HN`FM
$&LE?%!K75-9"OD"M"]"J`5;N<%_0+>`"J06#E-Z#8+Y@<[Q5[&5[")#F3%!>
M'^`VT`%N:6G)%=]K2S*`Z$L0Z#489V'9F_FHI</!,.*.DRP,W-89_@K/7"#0

```
M+UAAX,G)3]T,D)L?.,H2"KY06IP.:#^ZAQO0#_R2H#=!#?:-;40WD!1X_$$!O
M]0^YB,"Z<I$\B%A0=A#*R[\(9=''HQGR\'-&0B$-*1"DNQ#+8K0A*;U"EP8AB
M%>5@BRFL_0B*OPBQT)?,<S<!#%+N"B(C0ZD=5`\4RP\J)MRG/)Q:73B,(/$5!
M`"%Z`>0IXFL`0NMZO,:*&6_38"GS$CSW:@0`?:#_EHC80>E&(9`\6(J6I-6#)
ML96Y+J3#PE&?GH?5AB"<?5_!]C)YLR(%KX<0"B^B^%]LL@>]2,NB=*7OU"^0$
M/T'"[%//O##$8]YC"&.T#'LU<C'NIL?@,J;EZ=9WQN,`DE7<;MYVCG7!]K?RG
MV83Q`M52X@5!1`O-8S$+*6E=975YH6YK.X@)3:\NZ<1]C0C8LM63/H%B^U]7\
M#6C\J%ECUN,^EER/5L-<5GWIU.B(ND1;P10EO;XJ=)4>M)8Z(N'1I+"AV1#\%
M[-03LFADF(C$1%,B8150MO<&_ID.\50XV93$*1YW?3)R#H_H#OO`H,'>\5:B1
MJV#]L45R)YM0GK=;Z+LC'ET-E3WF`T;:AY<`.$R.L..-J0`-(:8+]Z5-GZ".B
M@:[TP7$\@T$7/6T;"^4_=Z<NC.^PVT]Q1$)].:0A00HOX4%$.M42_&ASHU7S?
M^2#&FL^$ZQR3#FFV;027C^YWZ6K'^$G$/&MYY*WG$![>\";,T%EQ&5H1Z.78O
M1^&_`@.(SX\4I]4HV:2`YPKYLSX+I?!.9KP+#SMY#VKES#T?T)P#\C]#TOSW8
M_'Q2@'B9`>W]2R'`'M_2DG'#V?5$WNADV;&$^R`/[^JS0I\ZQ`>FGG[]Q2Q2:
M=AZ>&!+^C$O&()=)5<^LS_?O0CZ0,JT)`AAR!+5>(>7<2X0-B95!\#AA_MR9`
M!59Y&A]DW1].O0%0@PQA_5>;!"#^EH\U*D/?1]Y<+9/OZZ*<0`>GC6MO3KGS%
M1",2(8F'8@=^&O.ZK\X7IX"0PY#,O#/8'Q@%0;Y+,O#6R(!."#G<)P0;>&^('
M0!`4N*3U'!$`ZQW\KS!E.FX+X+T&G>`:"J<,+&PC3=]_6$&>7@>Z@ROP0^3P9
M<Q+]#ON^#WNHG#10[^>OA['?P'--AVX+-_\.R3M[`[V[[4.@9_JG`<7W#9=@9
M+?O"JQ[<&U'MYX;G3"U1L%ARN%?J@V\9?S1UX:LOXWH[667"&W'W=0VZRS`V$
M'W,DG(SO6^YX.2S$1AV9]IT.S+!W]F!M869+V$I!ZY8'A%=]<$OY49B826R<X
MLM0'Q?/<.M+_Y^16!:'6&'6",JLX9+#3?5DI/@69O)RV.,/!_ZF<F;<?"&_6\
M,`RW2JCY+^Y_P#_X;&]\*7[Z:YO\E*9_GO`MN+!;S,471^PGA6,N3_NBZ5O^D
M1`_?J]9!ZV>'@1ZV'VU8D04YH0KXI.M5!O#)WU<76YSQ=0S"I/*?RM#?<7L[Q
M!7AM^7O_X((;T&#9BWW0WV3Z$PP(&U<AOVAO\5BR#9W]:@(/QF#E9;G!WI]"5
MTN^=0TT/5&72^QR@1P$+B954SNF0[3BL819@O((5>)>Z/165^T<8@Y2Q!II`%
MK<;C-8<FR$?B:@P`C@YWU!NKLAQ$FPR)#?NWJUI".T\$1E&Q'?C<:+Z<R'-NV
M1(1'D(1BY>K&VG**E[)6R.ECV!;$%3:\K8(G5NX($H1`Q2&$#N,0;Q"#:1=4-
M-[J`WL;4(W:D+N`V6=YF7S\-"&@T4PY5_AAQQP#DTL&M>0&[9^6]6"?T`:'6+
M&BHPPF78:'X&BIBFJX?V?_@R`P\,+O(O)``.5<W!"GW#&$%C,,K!+!`7&(`K\
MA`O&R!R?L81Q?Z(9'LB[J^@A&D,"#Z;0/FR$R*0_60A]]H247]0?$O[T;84K/
MO15J"$RB./_<5[%J.<BP6X:P/ZL!D')N"ANX(,CR?7W_>JV6M"]K8Q7VR'AG<
M[$>&HY_B3Q!__Z(D$ZZK_]*\?/YQ-2@5&F;RIBP%JVQ>G>Q.HO.ZO,TB!ZBI!
M!Y-O_%6`MP*-C@4^G`IV)$+$ZA(<L?T)/E*L0DM`I]<A0R>%'&024C&^HA2A[
MO"@%MJ/W1&Q;1,&DZ!=[#+:-S$_".54VZO3K?DDR[G,WA5*TOA]RZ[>5`AYB&
MRY)&,/[<(MO50:U.$FPXPNR)=ZRWKIV>]>&M`E,*)?]T<]^$W_BGS14B_>]<1
MJX.]PE7\)^%D8EXQB4WE*B,:NRSD?!!<#3V(/B7NJ@6YNB;4KYBA_O4F$IC48
M2EOW\3Y_2683_2)Y&<,M99YP"S$*6<>@T$L+68FEUQ&,^0V`E,*)5R1\!*YSF
M$JUNA!*Y\2L,!*%_\3_U+N+!A^48'@).GB34@2<ZRGA($@2,^F;CF)$*)S)40
M1.57.")E_-(^]H9WKZ.([)<N+N=:,`=8Q?!;3#OOG3P.XAU/G'>,*^M$X@574
M/[#?/%?,0!@/M-\,N0#)'AG^F2I*V5#D\_T$3X7R8,/#7YG*]GD\!A#YU\Q_B
MY;<O49#Q#:(8K0`960[W=+VD&WL_;[42O4S-COWNH>X^H&([&871XU@?L%,Y>
M1^4=[0&B9-H+7+C2+OCOBM,PV2L%8;2]/OF"&/@J$4M^[MHIQWKN$:8:F+MP5
MPGA"O/\%-D'TX#B[=S1G^#TW).IA].WX)]4CD(DC%C,KA`ZFPI$/Z&^7T+Q.;
M`WJ:`\J*&F#BF(]@Y9AUS2'T`_X!DW4'F]RO_X.&0"]_>/.WQ&U$^V'LKTC16
M=T/->?+R#N8H.O[8V?;8@5]LAOM_!C,+8P@^_[]1VF#/9B.R'CRS@/5PXUH>2
M]/+:0B(>4/_!79<7W$A+R6$.JHLL4R9/3IOZ)0P@$77@VT1)T`I77'@UG!#V4
M%'`#CD/\W)<JIUX@$6/S3NN(BRG)+<'UTP?8IZ9CG2N#],+67/6S.C2Z`]9.U
M?Y\L!%Y0RWUY%_WD2&T6%7,]@*!S\JPP>`.OYL;A4,EJ-"5OI0*1J=[[%,M<9
MC@7KJ^H4G/CF\(94*]>^NZ9_?Y((K%:Y05JSS&W^^9B[_$52OC^BJ?U^0=8X@
MW0*]E'WU<+/PSM>Q9,<:%"P_-*AB'3;2WO^.(UD+Z">?0,#]>I!@ESG5M!"GS
M:7>5*;>+$,1_D[4+$.G&A8J*A+Z$E\$MNR_D:/L"=+B?\)TFWD)\-PX>1[&!@
M.)Z44K=,J_<S=0MK?]BTLS;:VQ.]N2()S$FCE7$)R\MH3ZEK940GO8U8GJ@W<
M8G,MU$@V4;KA_^$X@B?7&)[RU9RA$3F>>Y?[==;@0QSS7KF0LBS1<,C$>KN>F
```

M:M>7>Q&&@S0V"0F.3XXM<6\&"4J[RAKK?AXA54L_.?!GJE0B7X3B%@?&U<H
M>@V^QC-?IO>GK?EI;#RB7+A<D./>`XI?=V2*3K]_94I+GM[QSL%-#4Z'B&P^`
M]+.2[.YG]#6R'<TR1SO94/HQ2N/FLKUBANN.0:6<BW&W>&O6:CB0JO)KX*^M<
M%E."N866>_GBU#[@!C$UT_U`8O4JN"@)V%PZM_!!]+<)!C32?AC/CO]>866[O
M?%]BERN"$W=,4E$2XZZ;M>MH-ZT#;99Z#C@JQ2+>];E4/#TXV;+\>_*1.)&,-
M$/"DMF8*74"[,Q:(>#V!K%]Y!XT"8B"S2KLQ_.#`]1XEF;7Q[H$&U<I3AZ66P
M+XGVPK0&L/6?*MJ0SAY$]USYEE\[75UQ""K/F#/(C*]V"?1_.7QIGS3F07^OI
MU=)`/$&Y6YD#?C\[F1+XH\A!K`@:Y:=P_F<!K6N7UD&^OL4/]=#YW=A>A^Y`%
M?@?WM3^ATW;`*JD8?E?`_UWPHP)WW=_[./2Y2_H>H'VS`4T']3O%?N,GIS#U,
M&T!_=A-X/J[G?D60YQF<HX!S,PWF_-E%'L-85;$B:B,Y!E/YOQ=2Y%PJT&]EP
MAIA;A.-#?KOR:OF'\&E7M^YP1QAKJ9(?6GPQ6G#VR$-OW#"?+K_JW`'"L*GLY
MG[A2*4O\%(.(^\"GYPI>BGV:2_R"--W0T3"LH>R5#)8%6)-1GS@()"_O!S&%U
M_F&J,+BU\PED-ORX"`L/B06EE;DA:DJ5CA;PLO`M43QZ"QZV,#!R0MFD)>;-N
M",VZE/!=?!,!"_W.*?!4LA@%F#L+$Y8X"^@1T[Y1<L6Y%.^EQ4?1!7&[A(?WD
MI4?`H..;JKP*>$GZB+\4D9)S,'V_W?5),?Y#?*6Z&S90W%0)W0-Q$GP&XN&Q9
M**\B.?O#;;"BRW#+;O:@$M@2KQMK(VNJ$4WWF/AQRRQ?`ZA+6M;%9>%H(MXK9
M748[0RSG^1M!59/7_N]V&&1P/`RV]#,-3!*<I+-9'IM",`2MA!D-QMXCUA,X,
M]0\M=`FLFRM9UO3[?,>C0<6$6T^H%*;_0!0PN[#OHJHGP[@[&1`@=P)FW2H]T
MF:N<KJEAIBB!P@<,Y`Y6>Z7.P-MY:6^*^!A#;1<S2O!3O0-(NWLDJ;!MB[>-#
M'''[>$04&E),Y)^6HP"E]\Z`IRR6#5@U@-:#7*T>#>X!NA:&7@UX-!*!PKY@E
M#8`V`-@#8SR1!LP;EJ"P8BDU'3!LP;8&QU9#KD+<&]X;`@=0!](PT&G).63UR
M3W(Y.Y\G8@_UG-PP(-#XG@5PE81-[][*;*5Z;>@NU91"M^M=OO)8.AB']5=]]
M\U0S`OO?V<A;G)]((YS[;@6X%N!;@6X%N!;@6X%N!;@70%:`IXD;T#$K_;Y6*
M6__3W[ZX%4Y&1?[;(9*9ZZ+T6SY?G)73)T\=GZ`\-?O!OG._*HZX*E1E6["$M
MQ#?\AWV(<]]B`&?SG=44%$54QDV6)*M<G=G1NM@;$5%Z!N@;H&Z!N@;H&Z!N-
M@;YBE#]P#:D;RZ99_8T0#=E#W)0[&^RAV5_\R-[$*Y77$O$C90#K'X'*X`Y\-
MB!9L3:""=IP(4L<"`O[8D1^$0[JH9T(J_%R!%00C7\]301#J?P1%,)5P2'U-4
M9,I`B`3P&=34J!,"`)I"2IRQA.B?*9##@$P,A5C@5Z(O"M<5J\"O)0JU(K;/,
M"OR0*CH"NM(*[40K/0"3#R@*H00J=R&!5O*00]Q+*!:+I"Z0E072"0J`+C^:(
M&&#BRP7^T:0NX(73<^4A6-`*V*PJN@%9::Q9MJ"S$,+8/R%9D0K^/CXJ%;\8A
M*_:@K-,%11AV6A=8?H`F8"[GS'G7`&WENM3M7"!'Q&WM$(-0Z9T\^'QO#@_LJ
MP:)(RFN$-#HAK_G#3A>3]ZL]*B^1%V'/VFL)OI=NCRJ3S&$PG9)PATT83MO)H
MWM82@$[O!.E=IX4['Y@?[0EA'[7@HPVV"*(T@G.`324F67"G0`%#^T)R&8`G&
M,R8";,A.6I,#LA-7X5X%66]`2WG">'`2WK.`GJ`L0ESD3$A1I6;4R[*P?U18=
M/T**E-KI+(X5?UB'UDBT\PD6R_LK)2";;ZX$B\):`T)9&X9",=NKLVJCJ_[F+
M+0&!9Q2G876BLC"8SJK5P5(9+-+JL>IU6@3MU..4[WM=3;@<3J<03QNIYO1M8
MU,3@B2'?Y)"9U:3EC'32'`KJ_\CL3Z:W5QA)\MKBU=<R@KJAYXKH0\6WRY=NT
MJ("3;:5!((T".\P2<89G?4.R+.UX.%Z!.0-WK25@D\$GDH=-P;5.N:U4@!_)<
M`'A<.O.1>:/5`GR1`F&1>X"=30@)'$Z_S^_D)'OW_#B":"Q^YO*O\7@/Q$-3;
MG60U'8:/U[ZI#;X,0V=BY_"8<"'1;MBST07N_XB9!V&$H)!!][OV343D.A4V,
M:-!DYDKTW3$G:I5=V@)H*^]6@)_CBT,-LAA.#'X^QA2DXF_;"2-\)-)S$O9(-
M(M:FK=@KD$#O]BHKO%RR.)8PF\C?T)89@S]853S`3AN^.TS%<MUYS5<'P[;,N
MT#CAL.V_*)('BX_Y8=E#@ZP0[&/7;K!8;]+-AO$-_%[@5%38*AM<"M^B7EFRG
MK#TA_P4C0@D'$<9%D2WY,P:''BA?_8-RFN:+T'K[\@T^K@:\+CF3L<'/NO.#`
M>_B&Y2O(;I8&]:2YXS3WUO100'(2,\E[I0S&VHT`,8`9^(*&:S`&2-*W4EI
MZS,G<HX*_`"U3(C1!^0]2A!!_>_K?,J+R;!9'GK7!MS1%GKM"KS2EQIV>9$IK
MSN8%_$(=WEL7QQB)3^0A]E:!%Q;;$R*<^T1?7*(G.0G$1\YZ"#$UJ('\SY7'1
M_^(HN?B]`<:LASPKZ!QL<J>4-3;B27]$@0Y""(=!.Y*M0(1MB:5L`^2_^9:]B
ME]=I(/M(@QGK'9GM&J4KP&\GPZO^IKD53C(>\1N>Z!\!S'OLYPG`'.I'F^T#I
MD?F3^1=#DQ#(TT'&-W>5:L-G*_0+5R"P"YQ",WBMRZ"[*'M_R&0)G;DFT<.D3
M#MI=D0;1.EA#N3ZV)/#.I`[A]O<'V%7!]#Z#_YV4/=50^@X1,+0B28WK-EJ,B
M3ZTICYML@I>+_(?S;N0_!"M./\SKD?AOX/XDA#[N,K`'YI;I+<EC;P6D$#N70
M3395GD"`'2!;!!_P8V$$$?V0.\1AO$`<P]R,U@0619.(Y+%U9,J`S,CVU`X"+
MH7%8:,+0W<\;'&[/B=VRZ#F*$3,<(H=8%X=?TEEOU$G9GCWDA:&S?RX,I];H,

M_9)&]M7@:M?`S]VS!2P5G[T#+[&8!'L1AX^@UA,CO-`6[@J)P[_U3#`DQ;#,Q
M<=@.)A*IK@02M!+.+V?*.5^2@;8$KU?&ZZ(-KGPW!GT4>CHU]!ZDXTR$=LD/[
ML+P^*H#Z)G.D_A!MZ>?+1MGT=@>9D/#Z-OJ`>=[QWA[W2N'BEWM;TP#=G^&\2
M]MOY*Y7\^#&Q]OZ0TS##4U)G7Q.NQ^#9_,M\"T.G5PW#$;W3;^0[I*W^ZF)+2
MK?P=VA-J(.V7=;01;A](B9*$)'1BGV#"(6#<@I`_G.;2AYBZ(;9$+?W\$)Z?P
MO=(IJ6H?.T"QV@^K/P1^U(_7'&)JYVP:';N0=Q6^0[]:E`I=)L8(Z8`+ASBU^
M`AR:]6*#H"4.LG3Z.Q"3H\7>*8V`[KR'`@[[UFN(Z\\=@M)D^V-'`PZX\SQ7N
M5=D5#8&-UD(8]:&!MG5GD,_<RKB%UL4+ZTQ3;4L1/@]8++.$H]^_Q0S19PX*+
M)9R>I#(A9\=<QQ#G#_]476JG3X7"GPI+<*U*QSZN#,[Z*W%`0QJMZFC60:Y#S
M%:1<*&-*,415H8_@8MVGP7(H-(3RG*`,(NPN*-KL;$F^KYUS6!8W#FE)3+7+6
MX91RWOQP&+Y),*SV>1A$JR=?<ZP6/Z0<AU#\OFZU`K!.88[>>H48S0I;\/J[O
M3$V.J_+!Z$X3O=!(I,2#CJ\C^OMR'PL/DGJ(3L+>3]FC1YJS>SA!T*?,&?#OZ
M\5*3,P.?0;;^I4I.#$S9(>D?TI23X!Z3;KY5F1+$\T0>4Q!++^<\0*?$@6VD*
M#A802@@06Z>H"#\`@/P2=0F2Y!^THWY/_JU*^E1D3K8Z&81-;MV7W+5FJTE>M
M($VJ&^7VC<VB)/'(4DB$:=WR3?&-H4R)B+97[;QK7=ESB[NWQW[#[$%>%T'N(
M=K"4%^SS>@]=E1YBI[$#V/;\Y'(>E$CV'K]E>A[,<9ZIBFKW71DU%.46^&'?C
M@8R(VL,:L,?<*.J358!>)QX8\JAS"G`8UUDZ-ZFG&OCJHF>\B="YPK?'%N#>H
M\W.0V>\X:&SUKA&9D.[TQ9#KSL=V$LAV**W.PEH.["]XTN^;[#FU83VH`PAU7
M+82.'X^`E$49E/(8##A*!!.P`@P*%Q(05(]44+P^<#F:@?.(?6""`-QK2DP2,
M7!M*]A&"P)_A;<.%U4K0DYAE#A)I8^$6L\4/9F2)!8:%T6DF;^&=T]D4\PZ`!
MTN=QG(A*$\J]7VOF%O`H790A\>2,F)V^\P?($@CF;Z9AOEHR=C%I$5=],`*1P
M&?1UC;;DL(V)]_J1`?6%^S'AWRS0]$8UN/SOKM_85!]QP'I(M_'[WHBZPE0R9
MQ[^O!41._N8X3Z([J`(/CQ'4`\>D+QD;MI>Z(6-V,6B$>S/%\(=W&]L`D[*K
MS+<VTRT0GSCZB!&/?E$]&W8H'X-ODX%\!-^J86H7"<$5U-"#F"QNQ7#2O>*_>
M>:M@V=6##AHSD?78<T)84F$F/B2!1Z;`G*+QH1L0H&>G]QYI@,L]L<B_OH`)D
M$+X0L$3Q0CCL#&[`,&32H^'NQ^#IY;E!&,;K$XE"44_;E$BA/B'%H!$)]R(:E
M?IZ6HVQH.+A2@IWM(#_8_OJ^JD3\#E?;WPL=WQ):"?PHJ68V=(KWOSI[G^B?T
M8@S#WDA43S'(5&$/HCDD(9_-/<ZVFP.;R;YF-E0>[$FE6X2TA$M*`?A-1LW\>
M%@)Z1]07G&Z6I)Y02)>F`E>U>SA+0/D)FT6U,A'8UT@6FQNN&^G;.IHAZ/7,J
M1M->2QK=Y9\7!\A)T+T._IXS8:P0E+=(@H:M>>K^!X5!=B#5T"F"A1DF?D(L&
MN8FL)IWD_2H2M0<A@AA[*J4VF\I7D%K5=^/G-I$W2_(Q5MHNN1B&LY;\;ISX&
M9;'>X@]=G`,\1^058+`H@0;0$0_R-S4T'Z)X,?VLSN(*U"&R(KA$0S;F%?X1;
M%JOO1(_U>.!MS"ITM6,15K$1.P85W2^V*-(A_:V]P:0+=!),)+U%QS%;QI=L\
M3B&M5W?&TX=SWR<'ZW6Y=@"T!S@Q4#G+/^;$7K[UQP3(G#8O8+],;M\1XDL#Y
M39]X.NQ(P.D/5%+=-!`+/(.]G?6.!'98=XM^T-_7O0[WAEN';[X=R\4/`ZQHY
M3A(GRFNY1E?(]B(`?0&."'^[BIF)?.CO7$VZMB2;G^TN7HT_1+YTEX2VCKC-0
MP5[L3#SO8#,C(<R,WD3;W6Q*/<8O"FQ:OE?>*G6RLDDSK+M%3^I'@J@$5=HD
M&.6I^K&?*.519/.@?S$V0)],\1%&K7+P'>2'2GNB?MM(ST4=?%#VQ'ECT;33J
M].N,Q:'=IS_/F!:!6]>;NH'SKKU*_S#A)?L"W$O^$BOS#WU??]-%K%-.0HD>N
M"B"Z85=:O*GX4-D4/PX*`5.RN<$QP6?!*\M>(RNP2@\\M.0:M`$^G:#A/JO@
MG((EJCNB=Y'U"?GW2;SU`G+EHP7D<JR*`,A1SZJGS2(1#PG[,.>(D8)5=IU@O
MG.#WSXI\(Z7$CC]?Q=S5*U>$E!][H%"H2'PZH]A,WA+O^$2(U9Q(OC;4=SL._
M-6#ZO6"/YVFV[T=/'FOF)+=+:PYC:^9[?!:</MPDZB=1;'#T1MYA'FR$?T:-J
MA'V0W81A([&EX')_AVO$W,P*G!FXJQ<AFDD,O&V5:^2-^6?%X9^:K@>IP4T?$
MKE<8;;>AO!7?>[/6\?T\Q@Y7K^@XM+Z'T-=J.8MY/!N650E]#T&)4#V<NK6@P
MX]1L3/2X1UR;!V#N*/Z&^0\%K_XX,T3[![?;[IB#AD<LD!VK;A#]?_5QJR/MS
MK/X>^^[?`.==MZ'#T6_]+V`>D!*P<.LX.5PAP_V>53G#D$MP`X9CL"U4A/"S/
M&76F'"QK'-')WL&LTHV#E/T.>`^"I.KLSWF8.:+?7#7,9MT8S9I5I>ASPXKA0
MQ2%UMFK3OZG;R!`T>5;KW1W&_0$1W'/;6_0XU$#MRV?OANR9]UN^JF29O/L#&
MJ?[:+ZX5-RW:\9Z@^S!YN:\I+/N0VO`ZWF]ARBR[%=T4WYM+AEIJ&>_63?LZV
ML0SGVUF+0T>]J5>&3X3Q[,T!GT.(]E_0;Z.,>RM$^K9AN81Z#<:=^:>P2>1;=
M<8*@,]=_6^$>??SSWOXS#7?'+P,UC\ZP!GXE]81@W%C]W*#A*+]^693H>CA7R
M7X,P:@,X,?V"AN,RI7Q0^ZGC@\\L>IN]X*JEKR^3,ZLAT,1YW[]KWRD$WRT-C
MCI_,1ULYX6M9"B'U66XGT/^=?![];_=IFZ\^!YL\6P$0]/^AZCN'HN#V(^'FL

```
MLE'4>$.@6OP[K]+]A.^Q&UZ(=T&RW!$-^3;\;&8`UTZPO[2YQ#D,;\M<7\ETB
M[(;Y;$X-*:OZBI,?EN=Z.5?UTH:>0#J4*0WF-F$*&B53V<58I`&'_XCIG,!\T
M;[ZX^F;V0UQOCL`:S:LP2SPTE+PA?OI?H1GAS/^A?@I'YPD"J/RW"%9S=+V$K
MZ'L)N\"B)V8+?:BH_3!KG2^#&_060[O.?/A.L'YTO"P@FO>`ED.&X)4!(:`D^
M)3+:CCVFTRM#XKOC_(CJ?M&%Z$M?B`O_Z%QT7?$/*`&%H!6=@EP4WX[\-:6;8
MD#'^&4=8)^3\;FV(CQSV%AM.Z^U<S&B"T[7LNG[:"&V6+RLU6WNS5U@:<$N^@
M0C\UH"VH6VR;LDLJS>%:<T5\X>@*H,;_<A$!:T9P2'OS@7XJHCFWS5]!NQSE<
M3PD^K@ZUJZ!I+]&3L(@.K5U"^.Q6P(-??T@&[8-'98@RV6!J%$H.=`-04-G$]
M*/#V`(-2G:61I*],'TD+/6[7DE"I9ZE@J*&Q"OU(7)4LH-92%K<').6GO2R30
M6S%;O5D+9HKU@U8-8P=A"L5*PYV"E@-8#6@V._9I"N!K@:X&N!K@:X&N!KP;>
M`&Q!MB*&=Z^#[U.%M*O?_>]RA4DVENGMNW:V]B5M/;CP"NWTLN2#Q8AG[A1`4
MZ.QEV=>O#X59QU?/VJ^KT%Y&<B`:'_DK0*=H:1"O@F5"S?,#P\*>`"L@!8`6S
M(%D!9`60%D!9@68%F!9@7\!5Z_=#>^G?&SSAYM;&+D(+LZT*EA_FV$>?\N-?]
M#B!V?#TD(F.WWAA/TMN][VF^4OI''QR[`H9-<ZQ+H1J$"F3-&H_^T@K_*__*4
MQHCS#<W2?Z8-\E]A$TEGOWI:`V'#!K@-A&[2#9DG,H:#?SYEU/6I)U!M0;5M2
M(K).C!^ILYZ9=D#L#5<2WV#GL@=@;8];'K8H;.OLI>P-L#;@W`-PL'`-P#<`5
MW`-P#<`W`-R#<@W(-R#<@W(-R#<@VE@U7V65GX.0!@=BK"43(1V"-V
M"$AUY")^\?7YED;D)U+4C=(BPXQ[P71Q0_BP\,P,N\&=XU<H9PD,J\!(#C?7<
M-AG$CXQQFD?0IC1[]F&1#7((\0B)VK&NUN[Q%,#).%`AFE(^2S98J^1$ACZMF
M&&*A#%*;<&%5T*`O=KH!43:%:HD*B];"N`424(2IA+W@D@<Y$P"RJ_Z)/";2)
M@87=`P1X9L\IRWR"KOP;M5M5+ZH/&V&N6B]=;!+EU0\:H>),H#`;(8E:>LFB,
M!XH"&[1$8-H6\^NJ\'>;I)KQ#W1PC?A[X,YUD(.0(T\8ULE%8:W72Z"WP:V?,
M(6R%HVA;?W$*1B0L\-QRZFPE<K:GAS3%SP^TAW[H\!I#;%'@WN2@98_@>LJ,^
MX.Z(@=]<'72P(Q6T:1]1CB97Q""2^JQJ&=$*&4)@#-1)ZZ!!#!X<KF@\T0GA>
M1X>SAZ6&A:)0)6`0TF7?3:A#`V*WL,(9I$,PB%A9@L80S"(9K9TQK4YH!$,1$
M(/T/@A!.=-$-4806.5?$-+!2-,(0IF/=AT\(IE&@0&H=_[0.R)_\(>.DL7_!E
MYA0)J]?#W*@`/;'?9433*OM2;8/4*XL-LA$:MM@B8S5]F+Q9*U*X54(@49$`K
MBN+R-K2>;6`QK=(-0?YQ?.M`@K`/EYM</'Q@=_Z&&@/O[6/];3#]@"0^:7:7L
M7].3+5YARE(RT"36.7+`7>"XDO-(+_0OJ)\T?4K,/]#0E(X&F7`2!U,<JCX<4
M[5#K!@+20\E4._B%IN=U@U(N1_E1`0?XW'G+38K*+3%UVNL3$Z6?]%52T5.=Q
M9FZJ3Z:0[A>T!?QP@;?[>())$LW$">\HJ?8FOD$=^+=V^\A_JKSQ_O$%_):<D
M(.5AVMYW-V@47"`[)PZ'O4CF0\51[DXJ&(>H/=#0>9LAU</8%;L3:%6Q\G(&H
M-;`@)0$0.:X*QKR^6@WX[,?+X63ON8(U?"\O>Y0FAU/E!N=-#LN8=]5"9=?\'
MD0Y4FCG_TL'DP/@;R=M"9A..#)G48I>BKZ@S1I`Y2&7<TR&,W:^#'\GFC7%\<
M=@'A":H"DA5(Q\C*@1+U02;#PIA)L@*@3S\_)?_LEUGO-6%'M+'&VI[,>=3ZW
M)87FF_Z0%CVL44H^[)'7W="U;`5SMK5BM.G;?4@I_*SW@`]&MWAX[L_YS#F9D
M.GP=0/\_%FH<W/PVHE&\H:/E9_T=LY7AEVU.D,Z$G\#,99G\BN9\"AGE89I?B
MM,,T3!F"X.#7F8PWD1=T2_0W3E%10DF,B,-U="F(JG\&K.@WP:-A(7[DBU]=3
MW,!JPB&44@O-D;3?BXZT/9R.-AQVD.:2#X.M(4+]G])/LA$SMU\$$;VH(O.^:
MSGNMAWI-KTIV>GKG:[^=:P/RA/9*&;#2Y+50C0,F4=X,S>]^:@E@,1ACTUO9\
M$._-I1"O9Y^=T_#7JM4)E'J`/@P5,NG\2D?6_)40Q<8!B]Y?B4,C.%/X-?RA0
MQ*?ZI4!XC0$H=.1T9E%?K7-Y(`WTHR+(Z^W3<GY"KO:^V3HW&?<C5.SW;*$V-
M/8'*:/77XV@RF;U7W9B*4>M=-@7X;(5TVK9+6LKOBNUN_"H]7R,X2*PD<D%G?
M6\3`:(QTU*07/^4AP2:*P2R!*JM&HV$JPHV<?J"X)+"CLAF"1/\)0]I!0I0G)
MW;FF%$,@I.ZLA7`Q"L6EPMNR:SL*LSQ9HV]4+RFIE7NL"+/-WRR)UM]R5<U;;
MR<O5\$,2RO<Z6X[NUN\MD-#)"XR-[HES3KP`MX<%CQCH%E]P4G&O0%$=[T+@%
M<`;")<=_.9E4'&'2`#K$R0<XI:R]")&(^9>HA5V4*E1.\*Q:7!:N$>JS-2#;K
MHK+X^"S/LJ;=(D(8G>I!0ZAA,Q89RM\+>F7&1&#'>$9^67`G2T3+<G&B`N_V"
MI'X)@TC[42T++J3-)WX5:_Y&E8]RNY_E.J=$4KV!JS`:^>+4U6/B("-ZK'6?N
M5:N57[X**079TX_*F%^#Z_F09TJ(2D92::./P1,-@VG&(">GM</$F1O.F[ZA)
MJ#9N]E\=.'1#KMI[OTZ`?-;W#YY_TZK3FO>!X_CO5&_LDZ%PH=MW_G#484>H]
M>B$/'SV]0][.*@P=V#WKHAUVT.WY@[?(ZZ'W/J](=%O].R@ASE(0#G?NX`X)O
M]1>1N$LI,&EW`TKQ#3_B&Z&A(6FF74>2'\P-UK+>CI4M#!:W+]99A<&)7B&;P
M,E^`9^S!X&GD01\2^T;V*#"MG`Y3>"N`;0WK1A-6'W,4#!RR1G?>O[)L`L:<0
```

```
MK;Y<6Y$,.K`#'.J2;2-L`!CQ\1E01!"[IAN:@B%WNPM?0QF?'$RS],&&L7I*.
MH37F:RC;K]*%['RO&R3]9.,9D6N@HS(]9V]-1$(U]&[*;7;/IV4?A6QOU=FCK
M]P254@:4F1.+`(Q(2*TQMIF";KKL?60403X^G?HG-O>;Y8<P9[@<?Q:?60VA2
MH#?<7).\^_RW8']P=G?^:OE48KBS(!W+JEKYXS4.+0\P(2JNP>6,D+<.?J]AQ
M8:.^]9=1`\VE:A7W"IF#<\,@BMT%0&*UX0)\A_$T4_G>!V'N!K\RSTM=?-`[R
M0\@\E:&&%,';QWDJZ'_37L2+FYC/T!`_65=A]HX#2G!`<,P^EVPH>Z13MG;`+
M8>4^8@Z8`ZB(M0T/+/(0E)A\55@A-L7"&W8GIKM?_ARX7%`SA^;Y8S-E<0X@9
M*JPX-NU$I^HA);81^(9#$G2X2$(RH'^GGH'QL/ZK(:,0[DRNR%A#I=J1#AHP$
MFAS4<D.!]@OBU[R!B^G)+;#X'P^].`?.V8P$ZHZ43YV1=SJP\LQ!W^C(<Q\LJ
MSK2!75?!^!K]R?(;A4/WZ_+^#G]PY]1*1H`6+B=6(.G^`C^:;UX6E0<R,OZH@
MT1Q?4;?HM9`38TYT"BO0I;<^8UE30HZPVLP.CR"A$07AT[@O*A_<%7.CA8!1%
M_O`O/IKK,XO==KN%GV-TZOQ[Q8=;CX+`[1A-(7<CG5F!8!;VXP7GT[PNGK_:3
ML^LSC@2PK)!8-`+,K'5A!9WD1<0J3&`VUBP)NR*S#UHI(CS"N)-E5-.SQ:\`[
M6JKN_]=F!:.!MEA:16H%GF!])]L&-GA0RT:G=\T"W9A0#CAWQ;/\SZT&?9TI3
MRWT^[HIF$YA,=[=K4;GYB_1'CJ#&U@T%S4"GM$*+KTK5Y>>KV^UBXZ8H:S$QW
M9(PM_!*070C37-6L4TFS\\/OX%!%6>>/]"@_07"%#U&F%/40I%X.>F<^%2!F.
MWJA3+$?J5'3PGJA["L7480KBZ=Y'5W3#V%9-#:84H:*.>"W=$)(6[['J5I80P
M4,.HYMIOT"VJ"4<J>-(<D)VTIKW4T=F?/V$VHM\?I'W//7*+]\$PY:.=Z&')\
M7;F:>`DK=8ROT!CMY=`8^WR8ACZ9F`8:-)K)8S'#693ZR&LHDH!JDQHT1_AT*
M&OSPL]MZC,N[9H)\;?*[W;\AU1V+N1Y9@TBB]V@(V+KGNI`\YA;$+#J0L0%A(
M!1(@)A3\"E7CK1H6FIY$2R$9,#&EF6B@8Z.F08>^`*8(GW$H'.O20==`7>2>V
M9>(7AZ"3!@[`R1Y#(!E+"`F8,M"-F35":H0%#.\BFU%.U,ZH,J#*J#JCEB-L&
M#+&W8C6:)JRD+D!<&7!EP9MT&,;D!=@MR-N#,`S`,R#,@S(,U.A#P9D@)Q0)>
MS.=M<M,@S(,R#$>RHT$`/:(*#*($;10JP%71K.F'D^TZKXY[WV7?$AY4OP_QX
M::%I=I\]`H30^AYQ?R-I;1]R_I5(:5]SWO+Z!8#`!X,/H@W<421B1Y"K%O0SX
EH/VD#7MA*",<A8S`0LW!T$G``?9`N0+D"Y`N0+D"Z`N@*$"@`$"@9
``
end
sum -r/size 8885/47520 section (from "begin" to "end")
sum -r/size 11231/33922 entire input file
```


--


```
********************************************************************************
*  EMAIL: leo@zelator.uucp     Stefan Hartmann                                 *
*  COMPUSERVE: 72017,3216      GEnie: S.HARTMANN                               *
*  Phone : ++ 49 30 344 23 66      FAX : ++ 49 30 344 92 79                    *
*********************************************************************************
```


==========================

ufo/aliens #140, from Cix_UseNet, 27571 chars, May 22 02:00 91

TITLE: INFO:FOIA files on UFO's Part 2

+From : dona@bilver.uucp (Don Allen)
+Subject : INFO:FOIA files on UFO's Part 2

---Part 2 continued-----

FOIA # 10

CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1975 MALMSTROM AFB, MT.

24th NORAD Region Senior Director's Log (malmstrom AFB, Montana).

10 NOV 75 (1125Z) - UFO sighting reported by Minot Air Force Station, a bright star-like object in the west, moving east, about the size of a car. First seen approximately 1015Z. Approximately 1120Z, the object passed over the radar station, 1,000 feet to 2,000 feet high, no noise heard. Three people from the site or local area saw the object. NCOC notified.

2. HQ USAF/DADF also forwarded a copy of a NORAD document for a review for possible downgrade and release. We have determined the document is properly and currently classified and is exempt from disclosure under public law 90-23, 5 USC 552b(1).

3. The decision to withhold release of this document may be appealed in writing to the Secretary of the Air Force within 45 days from the date of this letter. If you appeal, include any reasons for reconsideration you wish to present and attach a copy of this letter. Address your letter as follows: Secretary of the Air Force, thru HQ ADCOM/DAD, Peterson AFB CO 80914.

TERRENCE C. JAMES, COLONEL, USAF
Director of Administration

CY to: HQ USAF/DAD
HQ USAF/JACL

FOIA # 11
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1980 KIRTLAND AFB, NM

COMPLAINT FORM
ADMINISTRATIVE DATA

TITLE	DATE	TIME
KIRTLAND AFB, NM, 8 Aug - 3 Sep 80 Alleged Sighting of Unidentified Aerial Lights in Restricted Test Range.	2 - 9 Sept 80	1200

PLACE

AFOSI Det 1700, Kirtland AFB, NM
NOW RECEIVED
Yes in person

SOURCE OF EVALUATION
Major Ernest E. Edwards
RESIDENCE OR BUSINESS ADDRESS PHONE
Commander, 1608 SPS, Manzano 4-7516
Kirtland AFB, NM
CR 44 APPLIES

REMARKS SUMMARY OF INFORMATION

1. On 2 Sept 80, SOURCE related on 8 Aug 80, three Security Policemen assigned to 1608 SPS, KAFB, NM, on duty inside the Manzano Weapons Storage Area sighted an unidentified light in the air that traveled from North to South over the Coyote Canyon area of the Department of Defense Restricted Test Range on KAFB, NM. The Security Policemen identified as: SSGT STEPHEN FERENZ, Area Supervisor, ATC MARTIN W. RIST and AMN ANTHONY D. FRAZIER, were later interviewed separately by SOURCE and all three related the same statement; at approximately 2350 hrs., while on duty in Charlie Sector, East Side of Manzano, the three observed a very bright light in the sky approximately 3 miles North-North East of their position. The light traveled with great speed and stopped suddenly in the sky over Coyote Canyon. The three first thought the object was a helicopter, however, after observing the strange aerial maneuvers (stop and go), they felt a helicopter couldn't have performed such skills. The light landed in the Coyote Canyon area. Sometime later, three witnessed the light take off and leave proceeding straight up at a high speed and disappear.

2. Central Security Control (CSC) inside Manzano, contacted Sandia Security, who conducts frequent building checks on two alarmed structures in area. They advised that a patrol was already in the area and would investigate.

3. On 11 Aug 80, RUSS CURTIS, Sandia Security, advised that on 9 Aug 80, a Sandia Security Guard, (who wishes his name not be divulged for fear of harassment), related the following: At approximately 0020 hrs., he was driving east on the Coyote Canyon access road on a routine building check of an alarmed structure. As he approached the structure he observed a bright light near the ground behind the structure. He also observed an object he first thought was a helicopter. But after driving closer, he observed a round disk shaped object. He attempted to radio for backup patrol but his radio would not work. As he approached the object on foot armed with a shotgun, the object took off in a vertical direction at a high rate of speed. The guard was a former helicopter mechanic in the U.S. Army and stated the object he observed was not a helicopter.

4. SOURCE advised on 22 Aug 80, three other security policemen observed the same aerial phenomena described by the first three. Again the object landed in Coyote Canyon. They did not see the object take off.

FOIA # 12
CUFON Computer UFO Network
Date Sent: 06-10-1986

Subject: 1980 KIRTLAND AFB, NM.

CONTINUED FROM COMPLAL FORM 1, DTD 9 Sept 80

5. Coyote Canyon is part of a large restricted test range used by the Air Force Weapons Laboratory, Sandia Laboratories, Defense Nuclear Agency and the Department of Energy. The range was formerly patrolled by Sandia Security, however, they only conduct building checks there now.

6. On 10 Aug 80, a New Mexico State Patrolman sighted an aerial object land in the Manzano's between Belen and Albuquerque, NM. The Patrolman reported the sighting to the Kirtland AFB Command Post, who later referred the patrolman to the AFOSI Dist 17. AFOSI Dist 17 advised the patrolman to make a report through his own agency. On 11 Aug 80, the Kirtland Public Information office advised the patrolman the USAF no longer investigates such sighting unless they occur on a USAF base.

7. WRITER contacted all the agencies who utilized the test range and it was learned no aerial tests are conducted in the Coyote Canyon area. Only ground test are conducted.

8. On 8 Sept 80, WRITER learned from Sandia Security that another Security guard observed a object land near an alarmed structure sometime during the first week of August, but did not report it until just recently for fear of harassment.

9. The two alarmed structures located within the area contain HQ CR 44 material.

DATE FORWARDED HQ AFOSI
10 Aug 80 AFOSI FORM

DATE TYPE OR PRINTED NAME OF SPECIAL AGENT
Sept 80 Richard C Doty, SA

DISTRICT FILE NO
8017D93-0/29

FOIA # 13
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1980 KIRTLAND AFB, NM

COMPLAINT FORM
ADMINISTRATIVE DATA

DATE TIME

14 Aug 80 0730

KIRTLAND AFB, NM 13 Aug 80, Possible Hostile Intelligence Intercept Incident, Frequency Jamming.

PLACE
AFOSI District 17, BID, KIRTLAND AFB, NM

SOURCE AND EVALUATION
1960th Communication Officer

RESIDENCE OR BUSINESS ADDRESS
1960 COMMSq KAFB, NM

PHONE
4-5098

REMARKS SUMMARY OF INFORMATION

1. On 13 Aug 80, 1960 COMMSq Maintenance Officer reported Radar Approach Control equipment and scanner radar inoperative due to high frequency jamming from an unknown cause. Total blackout of entire radar approach system to include Albuquerque Airport was in effect between 1630-2215 hrs. Radar Approach Control back up system also were inoperative.

2. On 13 Aug 80, Defense Nuclear Agency Radio Frequency Monitors determined, by vector analysis, the interference was being sent from an area (V-90 degrees or due East). On DAF map coordinates E-28.6. The area was located NW of Coyote Canyon Test area. It was first thought that Sandia Laboratory, which utilizes the test range was responsible. However, after a careful check, it was later determined that no test were being conducted in the canyon area. Department of Energy, Air Force Weapons Laboratory and DNA were contacted but assured that their agencies were not responsible.

3. On 13 Aug 80, Base Security Police conducted a physical check of the area but because of the mountainous terrain, a thorough check could not be completed at that time. A later foot search failed to disclose anything that could have caused the interference.

4. On 13 Aug 80, at 2216 hrs., all radar equipment returned to normal operation without further incident.

5. CONCLUSION: The presence of hostile intelligence jamming cannot be ruled out. Although no evidence would suggest this, the method has been used in the past. Communication maintenance specialists cannot explain how such interference could cause the radar equipment to become totally inoperative. Neither could they suggest the type or range of the interference signal. DNA frequency monitors reporeted the interference beam was wide spread and a type unknown to their electronical equipment. Further checks of the area was being conducted by Technical Services, AFOSI.

6. High command interest item. Briefings requested IAW AFOSIR 124-4 be completed at HQ AFOSI/IVOE. HQ CR 44 and 51 items.

FOIA # 14
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1980 PROJ. AQUARIUS DOC.

SECRET

17 NOV 1980

RTTEZYVW RUFLOJA9136
ZNY S E C R E T
GT
SECRET FOR AFOSI ONLY
R 171130Z NOV 80
FM HQ AFOSI BOLLING AFB DC//IVOE
TO RUWTFBA AFOSI DIST 17 KIRTLAND AFB NM//BID
INFO 7602 AINTELG FT BELVOIR VA//INSR
SECRET FOR AFOSI ONLY
Ref: Request for Photo Imagery Interpretation Your MSG 292030Z Oct 80.
Subject Case NR: 8017D93-126 HQ CR 44
1. Subject Negatives/Film were analyzed by HQ IVT and 7602 AINTELG, it and the following results were found:
A. Negative #1: Deplicting C-5A aircraft on approach and streaking unidentified aerial object in lower right portion of film. Film found to be unaltered. Size differential was not consistent with size of aircraft. Conclusion: Inconclusive
B. Negative #2: Deplicting cylinder shaped unidentified aerial object in upper left portion of photo. Film found to be unaltered. Film showed object to be consistent with field depth and consistent with relative size of fixed objects. Conclusion: Legitimate negative of unidentified aerial object. Bolton/Reinfeld method did not reveal visible markings on object.
C. Negative #3: Deplicting irregular shaped unidentified aerial object in seven frames of 8MM film. Because of the size and apparent speed of object no further classification or conclusion could be drawn. Film shown to be unaltered.
D. 34 inches of 8MM film: Deplicting apparent colored object moving in front of still camera. Film found to be unaltered. Spectrography revealed colors to be basic prism features. Depth analysis revealed object to be within 152MM of camera. Object was not consistent with relative size of fixed objects observed for several seconds in film. Conclusion: inconclusive.
E. Original Negative Deplicting Unidentified Object: Film found to be unaltered. Because of a lack of fixed objects in the film, no depth analysis could be performed. Bolton, Reinfeld method revealed object to be saucer shaped, approximate diameter 37 feet. Object contained a trilateral insignia on the lower portion of object. Conclusion: Legitimate negative of unidentified aerial object.

2. Ref your request for further information regarding HQ CR 44, the following is provided: Capt. Grace 7602 Aintelg, INS contacted and related following: (S/WINTEL) USAF no longer publicly active in UFO research, however USAF still has interest in all UFO sightings over USAF installation/test ranges. Several other government agencies, lead by NASA, actively investigates legitimate sightings through covert cover. (S/WINTEL/FSA) One such cover is UFO Reporting Center, US Coast and Geodetic Survey, Rockville, MD 20852. NASA filters results of sightings to appropriate military departments with interest in that particular sighting. The official US Government Policy and results of project Aquarius is still classified top secret with no dissemination outside official intelligence channels and with restricted access to "MJ Twelve". Case on Bennewitz is being monitored by NASA, INS, who request all future evidence be forwarded to them thru AFOSI, IVOE.
4. Ref your request for technical assistance. Because of a chance of public disclosure, no knowledgeable personnel with SPA will be provided. Continue to receive assistance from individuals mentioned in your message, Miller, fugate. Because of the sensitivity of case, request they be thoroughly debriefed at regualr intervals.
BTS
NNNS
DOWNGRADE 17NOV2020

FOIA # 15
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1986 NSA REPLY AQUARIUS

NATIONAL SECURITY AGENCY
CENTRAL SECURITY SERVICE
Fort George G. Meade, Maryland 20755-6000

Serial: J9014C

15 APR 1986

This responds to your letter of 7 March 1986 in which you further narrowed your Freedom of Information Act (FOIA) request for records pertaining to Project Aquarius.

The document located in response to your request as stated in your 7 March letter has been reviewed by this Agency as required by the FOIA and has been found to be currently and properly classified in accordance with Executive Order 12356. This document meets the criteria for classification as set forth in subparagraphs 2, 4, and 8 of section 1.3 and remains classified TOP SECRET as provided in section 1.1 of Executive Order 12356. The document is classified because its disclosure could reasonably be expected to cause exceptionally grave damage to the national security. Because the document is currently and properly classified, it is exempt from disclosure pursuant to the first exemption of the FOIA

(5 U.S.C. section 552(b) (1)).

In addition, this Agency is authorized by various statues to protect certain information concerning its activities. We have determined that such information exists in this document. Accordingly, those portions are also exempt from disclosure pursuant to the third exemption of the FOIA which provides for the withholding of information specifically protected from disclosure by statute. The specific statutes applicable in this case are Title 18 U.S. Code 798; Title 50 U.S. Code 403(d) (3); and Section 6, Public Law 86-36 (50 U.S. Code 402 "note").

No portion of the information is reasonably segregable.

Since your request has been denied, you are hereby advised of this Agency's appeal procedures.

Any person denied access to information may, within 45 days after notification of the denial, file an appeal to the NSA/CSS Freedom of Information Act Appeal Authority. The appeal shall be in writing addressed to the NSA/CSS FOIA Appeal Authority, National Security Agency, Fort George G. Meade, MD 20755-6000. The appeal shall reference the initial denial of access and shall contain, in sufficient detail and particularity, the grounds upon which the requester believes release of the information is required. The NSA/CSS Appeal Authority shall respond to the appeal within 20 working days after receipt.

In your letter, you take exception to the amount requested by this Agency for manpower and computer search fees to process your original request for all information on Project Aquarius. Please be advised that NSA search and duplication fees are computed in accordance with guidance promulgated in sections 6-201 and 6-202 of Dod Directive 5400.7-R

Sincerely,

JULIA B. WETZEL
Director of Policy

FOIA # 16
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1983 P.L. CLARKE MEMO

Mr. Peter L. Clarke   5 December 1983
KOB Television
4 Broadcast Plaza SW
PO Box 1351
Albuquerque NM 87103

Dear Mr. Clarke

This is in reference to your Freedom of Information Act request of 18 November 1983 requesting access to information regarding photographs taken by Paul Bennewitz in 1980 near Kirtland AFB.

The only information we have in our files regarding this incident is a copy of a message, originator unknown, which apparently was placed in circulation in at least three cities in the U.S. This message discusses analysis of UFO photographs, and, while it does not mention who the photographer was, it does mention the name Bennewitz. The purported originator, the Air Force Office of Special Investigations, has reviewed the message and confirmed that it is a hoax. While the Air Force Intelligence Service is listed as a recipient of the message, we have no record of ever receiving it from AFOSI. The copy which we have in our files was forwarded to us by the organization Citizens Against UFO Secrecy.

We are attaching a copy of the document as we received it. We have, however, removed the bogus security markings so as not to alarm any recipients. We are also attaching other documents created by this agency as a result of the bogus message. These documents have previously been released to the public through the Freedom of Information Act.

For your further information, this agency collected information on UFO sightings for a few years. However, our interest in this topic was discontinued in the mid-1970's and our UFO records were transferred to the General Services Administration for inclusion in Project Blue Book. These records are available for public inspection through the National Archives and Records Service, Modern Military Branch, 8th and Pennsylvania Avenue, N.W., Washington DC 20408.

Sincerely

SUSAN COOKSEY
Freedom of Information Manager

3 Atch
1-3. Docs on UFO Incident

FOIA # 17
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1983 UNAUTHORIZED RELEASE

DEPARTMENT OF THE AIR FORCE
Headquarters Air Force Intelligence Service
Fort Belvor Virginia 22060

DAD

25 January 1983

Possible Unauthorized Release of Classified Material

INSA (MSgt Heldman)

DA

1. Per our telephone conversation today, I am forwarding Mr Robert Todd's FOIA request along with the AFOSI message for determination as to classification level. As you can see, Mr Todd retyped the message "for easier reading." I have talked to AFOSI/DADF, Nadine Dulacki. According to her, they did not release the message to Mr Todd nor does she know how it came into his possession. Maj Kilikauskas (AFSAC/INOB, 664-4488) has looked at the message and he feels that it is a fake for several reasons:

a. There never has been an office within AFSAC (or 7602nd) with the symbol INS, INSR, or IT.

b. There has never been a "Capt Grace" (or anyone with the surname Grace) assigned to AFSAC.

c. The purported imagery interpretation done is outside AFSAC's and AFOSI's mission. Further, AFSAC has no individuals who are photo interpreters.

d. The term WNINTEL is spelled phonetically on each occurrence. OSI should certainly be familiar with the correct spelling. Further, the document is replete with grammatical errors, typing errors, and in general, makes no sense.

e. The document is not in the standard, accepted format for classified messages.

Neither Maj Kilikauskas nor Mr Nehlig (who has worked in AFSAC many years) remember hearing of a "Project Aquarius." Further, Maj Kilikauskas had no idea if the information purported supplied by this Capt Grace is, in fact, classified at the Secret/WNINTEL level. He suggests that both NASA and Coast and Geodetic Survey be contacted to see if they have an interest in the message.

2. Finally, I have talked to Mr Earl Middaugh (AFOSI/IVOE, 767-5144). He remembers a FOIA request that his office staffed which involved an AFOSI message similar to this one. However, they were unable to identify it as OSI originated. He thinks perhaps this might be the same message. I have forwarded a copy of the Todd request to the AFOSI Freedom of Information Office (Bob Walker, 767-5262). Upon receipt both Mr Walker and Mr Middaugh will be better able to determine if this is a legitimate AFOSI document.

3. Until a determination is made, we ill regard the document as classified.

SUSAN COOKSEY
Documentation Management Branch

2 Atch
1. Todd Request
2. Message, 2 cys (S/WNINTEL)

FOIA # 18

CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1986 NSA PROJ. AQUARIUS

NATIONAL SECURITY AGENCY
CENTRAL SECURITY SERVICE
Fort George G. Meade, Maryland 20755-6000

Mr. ______________________ Serial: J9014A
____
_________________________ 20 FEB 1986

Dear Mr. ________________

This is in response to your Freedom of Information Act request of 8 January 1986 in which you request information on a group referred to as MJ12 or "Majestic 12" and Projects Sigma, Snowbird and Aquarius.

Please be advised that Sigma and Snowbird are not projects of this Agency, so we would have no records responsive to that portion of your request. In addition, no records were located relating to M12 or "Majestic 12."

An initial survey of materials responsive to that portion of your request dealing with Project Aquarius would result in search fees in excess of $15,000 for manpower and computer costs. Our search would be facilitated and the search fees may be less if you provide us with additional information regarding the type of information in which you are interested. This request for further specificity is in accordance with DoD regulations governing the processing of FOIA requests.

Should you wish us to initiate a search for records responsive to your request as stated inyour 8 January letter, please be advised that our policy is to request advance payment of one-half the estimated cost, as well as an agreement to pay the balance, prior to initiating the search.

Please be advised that your agreeing to incur these fees will not necessarily result in the disclosure to you of any information. It has been our experience, that any records responsive to your request, if such records exist, most likely would be classified or otherwise exempt from release in accordance with the exemption provisions of the Freedom of Information Act. The application of these exemptions to NSA information has been consistently approved by the Federal Judiciary.

FOIA # 19
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1986 NSA PROJ. AQUARIUS

NATIONAL SECURITY AGENCY
CENTRAL SECURITY SERVICE
Fort George G. Meade, Maryland 20755-6000

Serial: J9014A

03 MAR 1986

____
____
____

Dear Mr. __________________:

This is in response to your letter of 20 February 1986 in which you stated that, regarding your Freedom of Information Act (FOIA) request for information on Project Aquarius, you are interested in Aquarius as it pertains to unidentified aerial objects. Please be advised that Project Aquarius does not deal with unidentified aerial projects. We, therefore, have no information to provide to you on the subject.

In your letter you also ask for information on Projects Sigma and Snowbird. The FOIA provides that a person has a right of access to federal agency records, except to the extent that such records are protected from disclosure by one of nine exemptions. It does not require that an agency answer questions. As I mentioned in my letter of 20 February, Sigma and Snowbird are not NSA projects; therefore, we have no information to give you on these topics.

Since you indicate in your letter that you will not be paying the $15,000.00 fee to search for records pertaining to Aquarius, this response completes our action on your request.

Sincerely,

DENNIS C. CHADWICK
Chief
Information Policy

Continued in Part 3

--
-* Don Allen *- InterNet: dona@bilver.UUCP // Amiga..for the rest of us.
USnail: 1818G Landing Dr, Sanford Fl 32771 \X/ Why use anything else? :^)
UUCP: ..uunet!tarpit!bilver!vicstoy!dona 0110 0110 0110 Just say NO!
Illuminati < MJ-12|Grudge|TLC|CFR|FED|EEC|Bush > WAR = "New World Order"

↑=========================
ufo/aliens #141, from Cix_UseNet, 21931 chars, May 22 01:58 91

TITLE: INFO:FOIA files on UFO's Part 1

+From : dona@bilver.uucp (Don Allen)

+Subject   : INFO:FOIA files on UFO's Part 1

Hi Folks :-)

The following are 50 FOIA (Freedom of Information Act) files on UFO's
for your perusal. Since this is a large collection, it will be split
into 5 parts. The info presented here represents only a *fraction*
of available FOIA files that have been released to the public domain
within the last few years on the UFO phenomena.

Each part is around 20K (or so) and would make a good digest if you
were to cat them all together.

I've left them intact, *typos* and all.

-----Begin Included Text--

Part 1:
****

FOIA # 1

Document #: 1
Date Sent: 06-09-1986
Subject: 1947 J. EDGAR HOOVER FBI

CUFON - UFO INFORMATION SERVICE SEATTLE, WA

FREEDOM OF INFORMATION ACT DOCUMENT FILES

Memorandum for Mr. Ladd

Mr. ________ also discussed this matter with Colonel L. H. Forney of
MID. Colonel Forney indicated that it was his attitude that inasmuch as
it has been established that the flying disks are not the result of any
Army or Navy experiments, the matter is of interest to the FBI. He
stated that he was of the opinion that the Bureau, if at all possible,
should accede to General Schulgen's request.

SWR:AJB

ADDENDUM

I would recommend that we advise the Army that the Bureau does not believe
it should go into these investigations, it being noted that a great bulk
of those alleged discs reported found have been pranks. It is not
believed that the Bureau would accomplish anything by going into these
investigations.

DML

(Clyde Tolson) - I think we should do this. (Dated 7/15)

(J. Edgar Hoover) - I would do it but before agreeing to it we must insist upon full access to discs recovered. For instance in the SW case the Army grabbed it and would not let us have it for cursory examination.

FOIA # 2

Document #: 2
Date Sent: 06-09-1986
Subject: 1947 AAF W/FBI UFO INVES.

CUFON - UFO INFORMATION SERVICE SEATTLE, WA

FREEDOM OF INFORMATION ACT DOCUMENT FILES

DATE OF DOCUMENT 7/30/1947

(B) FLYING DISCS -- The Bureau, at the request of the Army Air Force intelligence, has agreed to cooperate in the investigation of flying discs. The Air Forces have confidentially advised that it is possible to release three or more discs in odd numbers, attached together by a wire, from an airplane in high altitudes and that these discs would obtain tremendous speed in their descent and would descend to the earth in an arc. The Army Air Forces Intelligence has also indicated some concern that the reported sightings might have been made by subversive individuals for the purpose of creating a mass hysteria.

(AUTHORIZATION TO INVESTIGATE)

7-30-47
BUREAU BULLETIN NO. 42   -2-
Series 1947

You should investigate each instance which is brought to your attention of a sighting of a flying disc in order to ascertain whether or not it is a bonifide sighting, an imaginary one or a prank. You should also bear in mind that individuals might report seeing flying discs for various reasons. It is conceivable that an individual might be desirous of seeking personal publicity, causing hysteria, or playing a prank.

The Bureau should be notified immediately by teletype of all reported sightings and the results of your inquiries. In instances where the report appears to have merit, the teletype should be followed by a letter to the Bureau containing in detail the results of your inquiries. The Army Air Forces have asured the Bureau complete cooperating in these matters and in any instances where they fail to make information available to you or make the recovered discs available for your examination, it should promptly be brought to the attention of the

Bureau.

Any information you develop in connection with these discs should be promptly brought to the attention of the Army through your usual liason channels.

FOIA # 3

Date Sent: 06-09-1986
Subject: 1966 J.E.HOOVER RESPONSE

CUFON - UFO INFORMATION SERVICE SEATTLE, WA

FREEDOM OF INFORMATION ACT DOCUMENT FILES

ST-101   July 21, 1966

____
Cleburne, Texas 76031

Dear Mr. ____________

Your letter of July 16th has been received.

For your information, the investigation of Unidentified Flying Objects is not and never has been a matter that is within the investigative jurisdiction of the FBI. I can assure you the photograph you mentioned does not represent employees of this Bureau and the FBI has never had custody of an occupant from a foreign planet.

Enclosed are some booklets pertaining to our activities which I hope you will enjoy reading.

Sincerely yours,

John Edgar Hoover
Director

Enclosures (2)
Know your FBI
Story of the FBI
NOTE: Correspondent is not identifiable in Bufiles. The Bureau has had other inquiries concerning this photograph. The article which appeared in a recent issue of this magazine purported to be an actual report of unidentified flying objects and has been brought to the attention of the Bureau previously. In view of the fictional aspects of the material and our relations with "Real" magazine no contact was made with the magazine regarding the representation of FBI Agents.

MAIL ROOM ___ TELETYPE UNIT ___

FOIA # 4

Date Sent: 06-09-1986
Subject: 1949 FBI MEMO RE: PHOTOS

CUFON - UFO INFORMATION SERVICE SEATTLE, WA

FREEDOM OF INFORMATION ACT DOCUMENT FILES

Office Memorandum - UNITED STATES GOVERNMENT

TO   : DIRECTOR FBI   DATE: January 10, 1949
FROM   : SAC KNOXVILLE
SUBJECT : "FLYING SAUCERS" OBSERVED OVER
          OAK RIDGE AREA
          INTERNAL SECURITY - X

There are being submitted herewith two photographs of reputedly "flying saucers" which were seen at Oak Ridge, Tennessee, sometime during July of 1947. All of the information contained in this letter was received from George Rateman, Resident Engineer, Air Material Command, United States Army, who is the principal army technician at the Nuclear Energy for the Propulsion of Aircraft Research Center at Oak Ridge, Tennessee.

Mr. Rateman advised that the attached photographs were taken by ______ in July of 1947. He stated that interview with _______ revealed that he had been snapping photographs of his family in front of his residence at 218 Illinois Avenue, Oak Ridge, Tennessee, late in the afternoon, when he looked into the sky and observed the vapor trail as exhibited by the photograph numbered "1." __________ stated that he took a snap of this trail, was winding the film to the next number, when he looked into the sky and observed the ball of fire as shown in photograph 2. _______ made these photographs available to reporters of the Knoxville News-Sentinel and a story concerning them was run in that paper; however, as shown by the photostatic copy of the newspaper clipping, which is also being submitted herewith to the Bureau, the print was very indistinct; the news story did not contain any factual information; and it was regarded generally by the public at the time as a possible trick.

Later, it was learned by Rateman and _________ that _________ had made several copies of this photograph and had distributed them among his aquaintances at Oak Ridge, Tennessee. Upon ___________ finding that the photographs had received some distribution, he requested Rateman as Head of the Compliance and Investigations Division, to recover as many as possible of the photographs, advise the persons in whose possession they were found to say nothing to anyone concerning them, and to return the said photographs to him for transmission to the United States Air Force Intelligence Service. Rateman advises that he succeeded in rounding up twenty four copies of these photographs, and that, according to the statements of ________, no more copies were made or distributed. Rateman further stated that _______ had appeared extremely concerned over the

matter and seemed quite emphatic that the matter should be given no more publicity than was absolutely necessary. Rateman also advised that he studied the negatives from which the reproductions were made, and they appeared to be authentic in that trick photography should have been apparent, but from the ______________ ________________.

FOIA # 5

Date Sent: 06-09-1986
Subject: 1947 GEN. TWINING LETTER

CUFON - UFO INFORMATION SERVICE SEATTLE, WA

FREEDOM OF INFORMATION ACT DOCUMENT FILES

----

23 September 1947

SUBJECT: AMC Opinion Concerning "Flying Discs"
TO: Commanding General
Army Air Forces
Washington 25, D.C.
ATTENTION: Brig. General George Schulgen
AC/AS-2

1. As requested by AC/AS-2 there is presented below the considered opinion of this command concerning the so-called "Flying Discs." This opinion is based on interrogation report data furnished by AC/AS-2 and preliminary studied by personnel of T-2 and Aircraft Laboratory, Engineering Division T-3. This opinion was arrived at in a conference between personnel from the Air Institute of Technology, Intelligence T-2, Office, Chief of Engineering Division, and the Aircraft, Power Plant and Propeller Laboratories of Engineering Division T-3.

2. It is the opinion that:

a. The phenomenon reported is something real and not visionary or fictitious.

b. There are objects probably approximately the shpe of a disc, of such appreciable size as to appear to be as large as man-made aircraft.

c. There is the possibility that some of the incidents may be caused by natural phenomena, such as meteors.

d. The reported operating characteristics such as extreme rates of climb, maneuverability (particularly in roll), and action which must be considered evasive when sighted or contacted by friendly aircraft and radar, lend belief to the possibility that some of the objects are controlled either manually, automatically or remotely.

e. The apparent common description of the objects is as follows:

(1) Metallic or light reflecting surface.

(2) Absence of trail, except in a few instances when the object apparently was operating under high performance conditions.

(3) Circular or elliptical in shape, flat on bottom and domed on top.

(4) Several reports of well kept formation flights varying from three to nine objects.

(5) Normally no associated sound, except in three instances a substantial rumbling roar was noted.

(6) Level flight speeds normally about 300 knots are estimated.

Continued on Next One

FOIA # 6

Date Sent: 06-09-1986
Subject: 1947 GEN. TWINING LETTER

CUFON - UFO INFORMATION SERVICE SEATTLE, WA

FREEDOM OF INFORMATION ACT DOCUMENT FILES

LETTER FROM GENERAL N.F. TWINING TO COMMANDING GENERAL,

ARMY AIR FORCES 23 SEPTEMBER 1947

---

f. It is possible within the present U.S. knowledger - provided extensive detailed development is undertaken--to construct a piloted aircraft which has the general description of the object in subparagraph (e) above which would be capable of an approximate range of 700 miles at subsonic speeds.

g. Any devlopments in this country along the lines indicated would be extremely expensive, time consuming and at the considerable expense of current projects and therefore, if directed, should be set up independently of existing projects.

h. Due consideration must be given the following:

(1) The possibility that these objects are of domestic origin - the product of some high security project not known to AC/AS-2 or this command.

(2) The lack of physical evidence in the shape of crash recovered exhibits which would undeniably prove the existence of these

objects.

(3) The possibility that some foreign nation has a form of propulsion possibly nuclear, which is outside of our domestic knowledge.

3. It is recommended that:

a. Headquarters, Army Air Forces issue a directive assigning a priority, security classification and code name for a detailed study of this matter to include the preparation of complete sets of all available and pertinent data which will then be made available to the Army, Navy, Atomic Energy Commission, JRDB, the Air Force Scientific Advisory Group, NACA, and the RAND and NEPA projects for comments and recommendations, with a preliminary report to be forwarded within 15 days of receipt of the data and a detailed report thereafter every 30 days as the investigation develops. A complete interchange of data should be effected.

4. Awaiting a specific directive AMC will continue the investigation within its current resources in order to more closely define the nature of the phenomenon. Detailed Essential Elements of Information will be formulated immediately for transmittal thru channels.

N.F. TWINING
Lieutenant General, U.S.A.
Commanding.

FOIA # 7

Date Sent: 06-10-1986
Subject: 1975 LORING AFB LANDING

CUFON - UFO INFORMATION SERVICE SEATTLE, WASHINGTON

FREEDOM OF INFORMATION ACT DOCUMENT FILES

DEPARTMENT OF THE AIR FORCE
Headquarters Aerospace Defense Command

Reply to
Attn of: DAD

Subject: Request for Information Under The Freedom of Information Act

To ____________________

1. A copy of you letter dated 22 August 1977 was received in this headquarters for direct reply on 19 September 1977. The following log entries have been extracted for release:

a. NORAD Command Director's Log (1975)

29 Oct/0630Z: Command Director called by Air Force Operations Center concerning an unknown helicopter landing in the munitions storage area at Loring AFB, Maine. Apparently this was second night in a row this occurrence. There was also an indication, but not confirmed, that Canadian bases had been overflown by a helicopter.

31 Oct/0445Z: Report from Wurtsmith AFB through Air Force Ops Center - incident at 0355Z. Helicopter hovered over SAC Weapons storage area then departed area. Tanker flying at 2700 feet made both visual sighting and radar skin paint. Track object 35NM SE over Lake Huron where contack was lost.

1 Nov/0920Z: Received, as info, message from Loring AFB, Maine, citing probable helicopter overflight of base.

8 Nov/0753Z: 24th NORAD Region unknown tract J330, heading SSW, 12000 feet. 1 To 7 objects, 46.46N 109.23W. Two F-106 scrambled out of Great Falls at 0745Z. SAC reported visual sighting from Sabotage Alert Teams (SAT) K1, K3, L1 and L6 (lights and jet sounds). Weather section states no anomalous propagation or northern lights.

Continued On Nexts

FOIA # 8

Date Sent: 06-10-1986
Subject: 1975 MALMSTROM AFB, MT

CUFON - UFO INFORMATION SERVICE SEATTLE, WASHINGTON

FREEDOM OF INFORMATION ACT DOCUMENT FILES

NORAD Region Senior Director's Log (Malmstrom AFB, Montana).

0835Z: SAT Teams K3 and L4 report visual, K3 report target at 300 feet altituds and L4 reports target at 5 miles. Contact lost at 0820Z. F-106s returned to base at 0850Z with negative results. 0905Z Great Falls radar search and height had intermittent contact. 0910Z SAT teams again had visual (Site C-1, 10 miles SE Stanford, Montana0. 0920Z SAT CP reported that when F-106s were in area, targets would turn out lights, and when F-106s left, targets would turn lights on. F-106s never gained visual or radar contact at anytime due to terrain clearance.

This type of activity has been reported in the Malmstrom area for several days although previous to tonight no unknowns were declared. The track will be carried as a remaining unknown.

7 NOV 75 (1035Z) - Received a call from the 34st Strategic Air Command post (SAC CP), saying that the following missile locations reported seeing a large red to orange to yellow object: M-1, L-3, LIMA and L-6.The general object location would be 10 miles south of Moore, Montana, and 20 miles east of Buffalo,Montana, Commander and Deputy for Operations (DO) informed

7 NOV 75 (1203Z) - SAC advised that the LCF at Harlowton, Montana,observed an object which emitted a light which illuminated the site driveway.

7 NOV 75 (1319Z) - SAC advised K-1 says very bright object to their east is now southeast of them and they are looking at it with 10x50 binoculars. Object seems to have lights (several) on it, but no distinct pattern. The orange/gold object overhead also has small lights on it. SAC also advises female civilian reports having seen an object bearing south from her position six miles west of Lewistown.

7 NOV 75 (1327Z) - L-1 reports that the object to their northeast seems to be issuing a black object from it, tubular in the shape. In all this time, surveilance has not been able to detect any sort of track except for known traffic.

7 NOV 75 (1355Z) - K-1 and L-1 report that as the sun rises, so do the objects they have visual.

7 NOV 75 (1429Z) - From SAC CP: As the sun rose, the UFOs disappeared. Commander and DO notitier.

8 NOV 75 (0635Z) - A security camper team at K-4 reported UFO with white lights, one red light 50 yards behind white light personnel at K-1 seeing same object.

8 NOV 75 (0645Z) - Height personnel picked up object 10-13,000 feet, track J330, EKLB 0648, 18 Knots, 9,500 feet. Objects as many as seven, as few as two A/C.

8 NOV 75 (0753Z) - J330 unknown 0753, Stationary / seven knots /12,000. One (varies seven objects.). None, no possibility, EKLB 3746, two F-106, GTF, SCR 0754. NCOC notified.

Continued On Nexts

FOIA # 9
Date Sent: 06-10-1986
Subject: 1975 MALMSTROM AFB, MT

CUFON - UFO INFORMATION SERVICE SEATTLE, WASHINGTON

FREEDOM OF INFORMATION ACT DOCUMENT FILES

24th NORAD Region Senior Director's Log (Malmstrom AFB, Montana).

8 NOV 75 (0820Z) - Lost radar contact, figters broken off at 0825, looking in area of J331 (another height finder contact).

8 NOV 75 (0905Z) - From SAC CP: L-sites had fighters and objects; fighters did not get down to objects.

8 NOV 75 (0915Z) - From SAC CP:From four different points:Observed objects and fighters; when fighters arrived in the area, the lights went out; when fighters departed, the lights came back on; to NCOC.

8 nov 75 (0953Z) - From SAC CP: L-5 reported object increased in speed - high velocity,raised in altitude and now cannot tell the object from stars . to NCOC.

8 NOV 75 (1105Z) - From SAC CP: E-1 reported white light (site is approximately 60 nautical miles north of Lewistown). NCOC notified.

9 NOV 75 (0305Z) - SAC CP Called and advised SAC crews at sites L-1, L-6 and M-1 observing UFO. object yellowish bright round light 20 miles north of Harlowton, 2 to 4,000 feet.

9 NOV 75 (0320) - SAC CP reported UFO 20 miles southeast of Lewistown, orange white disc object. 24 NORAD Region survellance checking area. Surveillance unable to get height check.

9 NOV 75 (0320Z) - FAA Watch Supervisor reported he had five air carriers vicinity of UFO, United Fight 157 reported seeing meteor, "arc welder's blue" in color. SAC CP advised,sites still report seeing object stationary

9 NOV 75 (0348Z) - SAC CP Confirms L-1, sees object, a mobile security team has been directed to get closer and report.

9 NOV 75 (0629Z) - SAC CP advises UFO sighting reported around 0305Z. Cancelled the flight security team from site L-1, checked area and all secure, no more sightings.

10 NOV 75 (0215Z) - Received a call from SAC CP. Report UFO sighting from site K-1 around Harlowton area. Surveillance

10 NOV 75 (0153Z) - Surveillance report unable to locate track that would correlate with UFO sighting by K-1.

Continued in Part 2

--
-* Don Allen *- InterNet: dona@bilver.UUCP // Amiga..for the rest of us.
USnail: 1818G Landing Dr, Sanford Fl 32771 \X/ Why use anything else? :^)
UUCP: ..uunet!tarpit!bilver!vicstoy!dona 0110 0110 0110 Just say NO!
Illuminati < MJ-12|Grudge|TLC|CFR|FED|EEC|Bush > WAR = "New World Order"

↑=========================
ufo/aliens #140, from Cix_UseNet, 27571 chars, May 22 02:00 91

TITLE: INFO:FOIA files on UFO's Part 2

+From   : dona@bilver.uucp (Don Allen)
+Subject   : INFO:FOIA files on UFO's Part 2

---Part 2 continued-----

FOIA # 10

CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1975 MALMSTROM AFB, MT.

24th NORAD Region Senior Director's Log (malmstrom AFB, Montana).

10 NOV 75 (1125Z) - UFO sighting reported by Minot Air Force Station, a bright star-like object in the west, moving east, about the size of a car. First seen approximately 1015Z. Approximately 1120Z, the object passed over the radar station, 1,000 feet to 2,000 feet high, no noise heard. Three people from the site or local area saw the object. NCOC notified.

2. HQ USAF/DADF also forwarded a copy of a NORAD document for a review for possible downgrade and release. We have determined the document is properly and currently classified and is exempt from disclosure under public law 90-23, 5 USC 552b(1).

3. The decision to withhold release of this document may be appealed in writing to the Secretary of the Air Force within 45 days from the date of this letter. If you appeal, include any reasons for reconsideration you wish to present and attach a copy of this letter. Address your letter as follows: Secretary of the Air Force, thru HQ ADCOM/DAD, Peterson AFB CO 80914.

TERRENCE C. JAMES, COLONEL, USAF
Director of Administration

CY to: HQ USAF/DAD
HQ USAF/JACL

FOIA # 11
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1980 KIRTLAND AFB, NM

COMPLAINT FORM
ADMINISTRATIVE DATA

TITLE	DATE	TIME
KIRTLAND AFB, NM, 8 Aug - 3 Sep 80 Alleged Sighting of Unidentified Aerial Lights in Restricted Test Range.	2 - 9 Sept 80	1200

PLACE

AFOSI Det 1700, Kirtland AFB, NM
NOW RECEIVED
Yes in person
SOURCE OF EVALUATION
Major Ernest E. Edwards
RESIDENCE OR BUSINESS ADDRESS PHONE
Commander, 1608 SPS, Manzano 4-7516
Kirtland AFB, NM
CR 44 APPLIES

REMARKS SUMMARY OF INFORMATION

1. On 2 Sept 80, SOURCE related on 8 Aug 80, three Security Policemen assigned to 1608 SPS, KAFB, NM, on duty inside the Manzano Weapons Storage Area sighted an unidentified light in the air that traveled from North to South over the Coyote Canyon area of the Department of Defense Restricted Test Range on KAFB, NM. The Security Policemen identified as: SSGT STEPHEN FERENZ, Area Supervisor, ATC MARTIN W. RIST and AMN ANTHONY D. FRAZIER, were later interviewed separately by SOURCE and all three related the same statement; at approximately 2350 hrs., while on duty in Charlie Sector, East Side of Manzano, the three observed a very bright light in the sky approximately 3 miles North-North East of their position. The light traveled with great speed and stopped suddenly in the sky over Coyote Canyon. The three first thought the object was a helicopter, however, after observing the strange aerial maneuvers (stop and go), they felt a helicopter couldn't have performed such skills. The light landed in the Coyote Canyon area. Sometime later, three witnessed the light take off and leave proceeding straight up at a high speed and disappear.

2. Central Security Control (CSC) inside Manzano, contacted Sandia Security, who conducts frequent building checks on two alarmed structures in area. They advised that a patrol was already in the area and would investigate.

3. On 11 Aug 80, RUSS CURTIS, Sandia Security, advised that on 9 Aug 80, a Sandia Security Guard, (who wishes his name not be divulged for fear of harassment), related the following: At approximately 0020 hrs., he was driving east on the Coyote Canyon access road on a routine building check of an alarmed structure. As he approached the structure he observed a bright light near the ground behind the structure. He also observed an object he first thought was a helicopter. But after driving closer, he observed a round disk shaped object. He attempted to radio for backup

patrol but his radio would not work. As he approached the object on foot armed with a shotgun, the object took off in a vertical direction at a high rate of speed. The guard was a former helicopter mechanic in the U.S. Army and stated the object he observed was not a helicopter.

4. SOURCE advised on 22 Aug 80, three other security policemen observed the same aerial phenomena described by the first three. Again the object landed in Coyote Canyon. They did not see the object take off.

FOIA # 12
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1980 KIRTLAND AFB, NM.

CONTINUED FROM COMPLAL FORM 1, DTD 9 Sept 80

5. Coyote Canyon is part of a large restricted test range used by the Air Force Weapons Laboratory, Sandia Laboratories, Defense Nuclear Agency and the Department of Energy. The range was formerly patrolled by Sandia Security, however, they only conduct building checks there now.

6. On 10 Aug 80, a New Mexico State Patrolman sighted an aerial object land in the Manzano's between Belen and Albuquerque, NM. The Patrolman reported the sighting to the Kirtland AFB Command Post, who later referred the patrolman to the AFOSI Dist 17. AFOSI Dist 17 advised the patrolman to make a report through his own agency. On 11 Aug 80, the Kirtland Public Information office advised the patrolman the USAF no longer investigates such sighting unless they occur on a USAF base.

7. WRITER contacted all the agencies who utilized the test range and it was learned no aerial tests are conducted in the Coyote Canyon area. Only ground test are conducted.

8. On 8 Sept 80, WRITER learned from Sandia Security that another Security guard observed a object land near an alarmed structure sometime during the first week of August, but did not report it until just recently for fear of harassment.

9. The two alarmed structures located within the area contain HQ CR 44 material.

DATE FORWARDED HQ AFOSI
10 Aug 80 AFOSI FORM

DATE TYPE OR PRINTED NAME OF SPECIAL AGENT
Sept 80 Richard C Doty, SA

DISTRICT FILE NO
8017D93-0/29

FOIA # 13
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1980 KIRTLAND AFB, NM

COMPLAINT FORM
ADMINISTRATIVE DATA

KIRTLAND AFB, NM 13 Aug 80, Possible Hostile Intelligence Intercept Incident, Frequency Jamming.	DATE: 14 Aug 80 TIME: 0730 PLACE: AFOSI District 17, BID, KIRTLAND AFB, NM SOURCE AND EVALUATION: 1960th Communication Officer RESIDENCE OR BUSINESS ADDRESS: 1960 COMMSq KAFB, NM PHONE: 4-5098

REMARKS SUMMARY OF INFORMATION

1. On 13 Aug 80, 1960 COMMSq Maintenance Officer reported Radar Approach Control equipment and scanner radar inoperative due to high frequency jamming from an unknown cause. Total blackout of entire radar approach system to include Albuquerque Airport was in effect between 1630-2215 hrs. Radar Approach Control back up system also were inoperative.

2. On 13 Aug 80, Defense Nuclear Agency Radio Frequency Monitors determined, by vector analysis, the interference was being sent from an area (V-90 degrees or due East). On DAF map coordinates E-28.6. The area was located NW of Coyote Canyon Test area. It was first thought that Sandia Laboratory, which utilizes the test range was responsible. However, after a careful check, it was later determined that no test were being conducted in the canyon area. Department of Energy, Air Force Weapons Laboratory and DNA were contacted but assured that their agencies were not responsible.

3. On 13 Aug 80, Base Security Police conducted a physical check of the area but because of the mountainous terrain, a thorough check could not be completed at that time. A later foot search failed to disclose anything that could have caused the interference.

4. On 13 Aug 80, at 2216 hrs., all radar equipment returned to normal operation without further incident.

5. CONCLUSION: The presence of hostile intelligence jamming cannot be ruled out. Although no evidence would suggest this, the method has been used in the past. Communication maintenance specialists cannot explain how such interference could cause the radar equipment to become totally inoperative. Neither could they suggest the type or range of the interference signal. DNA frequency monitors reporeted the interference beam was wide spread and a type unknown to their electronical equipment. Further checks of the area was being conducted by Technical Services, AFOSI.

6. High command interest item. Briefings requested IAW AFOSIR 124-4 be completed at HQ AFOSI/IVOE. HQ CR 44 and 51 items.

FOIA # 14
CUFON Computer UFO Network
Date Sent: 06-10-1986
  Subject: 1980 PROJ. AQUARIUS DOC.

SECRET

17 NOV 1980

RTTEZYVW RUFLOJA9136
ZNY S E C R E T
GT
SECRET   FOR AFOSI ONLY
R 171130Z NOV 80
FM HQ AFOSI BOLLING AFB DC//IVOE
TO RUWTFBA AFOSI DIST 17 KIRTLAND AFB NM//BID
INFO 7602 AINTELG FT BELVOIR VA//INSR
SECRET   FOR AFOSI ONLY
Ref: Request for Photo Imagery Interpretation Your MSG 292030Z Oct 80.
Subject Case NR: 8017D93-126 HQ CR 44
1. Subject Negatives/Film were analyzed by HQ IVT and 7602 AINTELG, it and the following results were found:
A. Negative #1: Deplicting C-5A aircraft on approach and streaking unidentified aerial object in lower right portion of film. Film found to be unaltered. Size differential was not consistent with size of aircraft. Conclusion: Inconclusive
B. Negative #2: Deplicting cylinder shaped unidentified aerial object in upper left portion of photo. Film found to be unaltered. Film showed object to be consistent with field depth and consistent with relative size of fixed objects. Conclusion: Legitimate negative of unidentified aerial object. Bolton/Reinfeld method did not reveal visible markings on object.
C. Negative #3: Deplicting irregular shaped unidentified aerial object in seven frames of 8MM film. Because of the size and apparent speed of

object no further classification or conclusion could be drawn. Film shown to be unaltered.
D. 34 inches of 8MM film: Deplicting apparent colored object moving in front of still camera. Film found to be unaltered. Spectrography revealed colors to be basic prism features. Depth analysis revealed object to be within 152MM of camera. Object was not consistent with relative size of fixed objects observed for several seconds in film. Conclusion: inconclusive.
E. Original Negative Deplicting Unidentified Object: Film found to be unaltered. Because of a lack of fixed objects in the film, no depth analysis could be performed. Bolton, Reinfeld method revealed object to be saucer shaped, approximate diameter 37 feet. Object contained a trilateral insignia on the lower portion of object. Conclusion: Legitimate negative of unidentified aerial object.
2. Ref your request for further information regarding HQ CR 44, the following is provided: Capt. Grace 7602 Aintelg, INS contacted and related following: (S/WINTEL) USAF no longer publicly active in UFO research, however USAF still has interest in all UFO sightings over USAF installation/test ranges. Several other government agencies, lead by NASA, actively investigates legitimate sightings through covert cover. (S/WINTEL/FSA) One such cover is UFO Reporting Center, US Coast and Geodetic Survey, Rockville, MD 20852. NASA filters results of sightings to appropriate military departments with interest in that particular sighting. The official US Government Policy and results of project Aquarius is still classified top secret with no dissemination outside official intelligence channels and with restricted access to "MJ Twelve". Case on Bennewitz is being monitored by NASA, INS, who request all future evidence be forwarded to them thru AFOSI, IVOE.
4. Ref your request for technical assistance. Because of a chance of public disclosure, no knowledgeable personnel with SPA will be provided. Continue to receive assistance from individuals mentioned in your message, Miller, fugate. Because of the sensitivity of case, request they be thoroughly debriefed at regualr intervals.
BTS
NNNS
DOWNGRADE 17NOV2020

FOIA # 15
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1986 NSA REPLY AQUARIUS

NATIONAL SECURITY AGENCY
CENTRAL SECURITY SERVICE
Fort George G. Meade, Maryland 20755-6000

Serial: J9014C

15 APR 1986

This responds to your letter of 7 March 1986 in which you further narrowed your Freedom of Information Act (FOIA) request for records pertaining to Project Aquarius.

The document located in response to your request as stated in your 7 March letter has been reviewed by this Agency as required by the FOIA and has been found to be currently and properly classified in accordance with Executive Order 12356. This document meets the criteria for classification as set forth in subparagraphs 2, 4, and 8 of section 1.3 and remains classified TOP SECRET as provided in section 1.1 of Executive Order 12356. The document is classified because its disclosure could reasonably be expected to cause exceptionally grave damage to the national security. Because the document is currently and properly classified, it is exempt from disclosure pursuant to the first exemption of the FOIA (5 U.S.C. section 552(b) (1)).

In addition, this Agency is authorized by various statues to protect certain information concerning its activities. We have determined that such information exists in this document. Accordingly, those portions are also exempt from disclosure pursuant to the third exemption of the FOIA which provides for the withholding of information specifically protected from disclosure by statute. The specific statutes applicable in this case are Title 18 U.S. Code 798; Title 50 U.S. Code 403(d) (3); and Section 6, Public Law 86-36 (50 U.S. Code 402 "note").

No portion of the information is reasonably segregable.

Since your request has been denied, you are hereby advised of this Agency's appeal procedures.

Any person denied access to information may, within 45 days after notification of the denial, file an appeal to the NSA/CSS Freedom of Information Act Appeal Authority. The appeal shall be in writing addressed to the NSA/CSS FOIA Appeal Authority, National Security Agency, Fort George G. Meade, MD 20755-6000. The appeal shall reference the initial denial of access and shall contain, in sufficient detail and particularity, the grounds upon which the requester believes release of the information is required. The NSA/CSS Appeal Authority shall respond to the appeal within 20 working days after receipt.

In your letter, you take exception to the amount requested by this Agency for manpower and computer search fees to process your original request for all information on Project Aquarius. Please be advised that NSA search and duplication fees are computed in accordance with guidance promulgated in sections 6-201 and 6-202 of Dod Directive 5400.7-R

Sincerely,

JULIA B. WETZEL
Director of Policy

FOIA # 16
CUFON Computer UFO Network
Date Sent: 06-10-1986
  Subject: 1983 P.L. CLARKE MEMO

Mr. Peter L. Clarke 5 December 1983
KOB Television
4 Broadcast Plaza SW
PO Box 1351
Albuquerque NM 87103

Dear Mr. Clarke

This is in reference to your Freedom of Information Act request of 18 November 1983 requesting access to information regarding photographs taken by Paul Bennewitz in 1980 near Kirtland AFB.

The only information we have in our files regarding this incident is a copy of a message, originator unknown, which apparently was placed in circulation in at least three cities in the U.S. This message discusses analysis of UFO photographs, and, while it does not mention who the photographer was, it does mention the name Bennewitz. The purported originator, the Air Force Office of Special Investigations, has reviewed the message and confirmed that it is a hoax. While the Air Force Intelligence Service is listed as a recipient of the message, we have no record of ever receiving it from AFOSI. The copy which we have in our files was forwarded to us by the organization Citizens Against UFO Secrecy.

We are attaching a copy of the document as we received it. We have, however, removed the bogus security markings so as not to alarm any recipients. We are also attaching other documents created by this agency as a result of the bogus message. These documents have previously been released to the public through the Freedom of Information Act.

For your further information, this agency collected information on UFO sightings for a few years. However, our interest in this topic was discontinued in the mid-1970's and our UFO records were transferred to the General Services Administration for inclusion in Project Blue Book. These records are available for public inspection through the National Archives and Records Service, Modern Military Branch, 8th and Pennsylvania Avenue, N.W., Washington DC 20408.

Sincerely 3 Atch
1-3. Docs on UFO Incident

SUSAN COOKSEY
Freedom of Information Manager

FOIA # 17
CUFON Computer UFO Network

Date Sent: 06-10-1986
Subject: 1983 UNAUTHORIZED RELEASE

DEPARTMENT OF THE AIR FORCE
Headquarters Air Force Intelligence Service
Fort Belvor Virginia 22060

DAD 25 January 1983

Possible Unauthorized Release of Classified Material

INSA (MSgt Heldman)
DA

1. Per our telephone conversation today, I am forwarding Mr Robert Todd's FOIA request along with the AFOSI message for determination as to classification level. As you can see, Mr Todd retyped the message "for easier reading." I have talked to AFOSI/DADF, Nadine Dulacki. According to her, they did not release the message to Mr Todd nor does she know how it came into his possession. Maj Kilikauskas (AFSAC/INOB, 664-4488) has looked at the message and he feels that it is a fake for several reasons:

a. There never has been an office within AFSAC (or 7602nd) with the symbol INS, INSR, or IT.

b. There has never been a "Capt Grace" (or anyone with the surname Grace) assigned to AFSAC.

c. The purported imagery interpretation done is outside AFSAC's and AFOSI's mission. Further, AFSAC has no individuals who are photo interpreters.

d. The term WNINTEL is spelled phonetically on each occurrence. OSI should certainly be familiar with the correct spelling. Further, the document is replete with grammatical errors, typing errors, and in general, makes no sense.

e. The document is not in the standard, accepted format for classified messages.

Neither Maj Kilikauskas nor Mr Nehlig (who has worked in AFSAC many years) remember hearing of a "Project Aquarius." Further, Maj Kilikauskas had no idea if the information purported supplied by this Capt Grace is, in fact, classified at the Secret/WNINTEL level. He suggests that both NASA and Coast and Geodetic Survey be contacted to see if they have an interest in the message.

2. Finally, I have talked to Mr Earl Middaugh (AFOSI/IVOE, 767-5144). He remembers a FOIA request that his office staffed which involved an AFOSI message similar to this one. However, they were unable to identify it as OSI originated. He thinks perhaps this might be the same message. I have forwarded a copy of the Todd request to the AFOSI Freedom of

Information Office (Bob Walker, 767-5262). Upon receipt both Mr Walker and Mr Middaugh will be better able to determine if this is a legitimate AFOSI document.

3. Until a determination is made, we ill regard the document as classified.

SUSAN COOKSEY
Documentation Management Branch

2 Atch
1. Todd Request
2. Message, 2 cys (S/WNINTEL)

FOIA # 18
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1986 NSA PROJ. AQUARIUS

NATIONAL SECURITY AGENCY
CENTRAL SECURITY SERVICE
Fort George G. Meade, Maryland 20755-6000

Mr. ______________________
____
____

Serial: J9014A

20 FEB 1986

Dear Mr. ________________

This is in response to your Freedom of Information Act request of 8 January 1986 in which you request information on a group referred to as MJ12 or "Majestic 12" and Projects Sigma, Snowbird and Aquarius.

Please be advised that Sigma and Snowbird are not projects of this Agency, so we would have no records responsive to that portion of your request. In addition, no records were located relating to M12 or "Majestic 12."

An initial survey of materials responsive to that portion of your request dealing with Project Aquarius would result in search fees in excess of $15,000 for manpower and computer costs. Our search would be facilitated and the search fees may be less if you provide us with additional information regarding the type of information in which you are interested. This request for further specificity is in accordance with DoD regulations governing the processing of FOIA requests.

Should you wish us to initiate a search for records responsive to your request as stated inyour 8 January letter, please be advised that our policy is to request advance payment of one-half the estimated cost, as well as an agreement to pay the balance, prior to initiating the search.

Please be advised that your agreeing to incur these fees will not necessarily result in the disclosure to you of any information. It has

been our experience, that any records responsive to your request, if such records exist, most likely would be classified or otherwise exempt from release in accordance with the exemption provisions of the Freedom of Information Act. The application of these exemptions to NSA information has been consistently approved by the Federal Judiciary.

FOIA # 19
CUFON Computer UFO Network
Date Sent: 06-10-1986
Subject: 1986 NSA PROJ. AQUARIUS

NATIONAL SECURITY AGENCY
CENTRAL SECURITY SERVICE
Fort George G. Meade, Maryland 20755-6000

Serial: J9014A

03 MAR 1986

Dear Mr. ____________:

This is in response to your letter of 20 February 1986 in which you stated that, regarding your Freedom of Information Act (FOIA) request for information on Project Aquarius, you are interested in Aquarius as it pertains to unidentified aerial objects. Please be advised that Project Aquarius does not deal with unidentified aerial projects. We, therefore, have no information to provide to you on the subject.

In your letter you also ask for information on Projects Sigma and Snowbird. The FOIA provides that a person has a right of access to federal agency records, except to the extent that such records are protected from disclosure by one of nine exemptions. It does not require that an agency answer questions. As I mentioned in my letter of 20 February, Sigma and Snowbird are not NSA projects; therefore, we have no information to give you on these topics.

Since you indicate in your letter that you will not be paying the $15,000.00 fee to search for records pertaining to Aquarius, this response completes our action on your request.

Sincerely,

DENNIS C. CHADWICK
Chief
Information Policy

Continued in Part 3

--
-* Don Allen *- InterNet: dona@bilver.UUCP // Amiga..for the rest of us.
USnail: 1818G Landing Dr, Sanford Fl 32771 \X/ Why use anything else? :^)
UUCP: ..uunet!tarpit!bilver!vicstoy!dona   0110 0110 0110 Just say NO!
Illuminati < MJ-12|Grudge|TLC|CFR|FED|EEC|Bush > WAR = "New World Order"

↑==========================
ufo/aliens #143, from Cix_UseNet, 22052 chars, May 22 02:03 91

TITLE: INFO:FOIA files on UFO's Part 3

+From   : dona@bilver.uucp (Don Allen)
+Subject   : INFO:FOIA files on UFO's Part 3

---Part 3 continued-----

FOIA # 20
CUFON Computer UFO Network
Date Sent: 06-10-1986
  Subject: 1986 ANSWER TO NSA

Mr. Dennis C. Chadwick   3-7-86
Chief, Information Policy
National Security Agency
Fort George G. Meade
Maryland 20755-6000

Dear Mr. Chadwick:

Thank you for your letter of 3 March 1986 and reply to my previous letter on Project Aquarius. I understand from your letter that you intend to abide strictly by the letter of the law in responses to FOIA requests. I had not realized that this was the attitude of the NSA or I would not have bothered you with questions in general. I have gotten the impression from other sources that the NSA does not maintain a generally open attitude toward the public, particularly where the subject of unidentified aerial objects is involved, and while completely understand the need to restrict some information what good is a country if its citizens are kept ignorant. Personally I feel that assessing a $15,000 charge for information is simply a convenient way to disuade requests.

Let me therefore rephrase my request as I would prefer to judge for myself whether Aquarius has anything to do with my interests. Firstly, I do not want to endanger this country or any of its intelligence gathering sources. I am not a spy or a subversive, my father is a surgeon and Lt. Colonel in the Air Force and I wouldn't want to harm his career. Therefore I am requesting just a clean copy of the material NSA is

maintaining which describes what the goal of project Aquarius is. I am not asking for all material you have but simply the initial forms, papers, or letters, which initiated this project and those which outline its purpose.

I cannot conceive that there should be anything but negligible costs to photocopy these materials. This should be waived inasmuch as it should be in the interest of the public to be aware of what their taxes are paying for. But if NSA needs reimbursement of copying costs then please let me know what the cost will be.

Sincerely,

Mr.______________________
____
____

FOIA # 21
CUFON Computer UFO Network
Date Sent: 07-11-1986
Subject: 1980 RAF WOODBRIDGE

DEPARTMENT OF THE AIR FORCE

HEADQUAILRS COMBAT SUPPORT GROUP (USAFC)

APO NEW YORK

REPLY TO: 13 JAN 81
CD
ATIN OF.

SUBJECT: Unexplained Lights

TO: RAF/CC

1. Early in the morning of 27 Dec 80 (approximately 0300L),two USAF security police patrolmen saw unusual lights outside the back gate at RAF Woodbridge. Thinking an aircraft might have crashed or been force down, they call for permission to go outside the gate to investigate. The on-duty flight chief reponded and allowed three patrolmen to proceed on foot.The individuals reported seeing a strange glowing object in the forest.The object was described as being metalic in appearance and triangular in shape, approximately two to three meters across the base and approximately two meters high. It illuminated the entire forest with a white light. The object itself had a pulsing red light on top and a bank(s) of blue lights underneath. The object was hovering or on legs. As the patrolmen approached the object, it maneuvered through the trees and disappeared. At this time the animals on a nearby farm went into a frenzy. The object was briefly sighted approximately an hour later near the back gate.

2. The next day, three depressions 1 1/2" deep and 7" in diameter were found where the object had been sighted on the ground. The foll-owing night (29 Dec 80) the area was checked for radiation.Beta/Gamma readings of 0.1 milliroentgens were recorded with peak reading in the three depressions and near the center of the triangle formed by the depressions. A nearby tree had moderate (.05-.07)readings on the side of the tree toward the depressions.

3. Later in the night a red sun-like light was seen through the tree . It moved about and pulsed. At one point it appeared to throw off glowing particles and then broke into five separate white objects and then disappeared. Immediately thereafter, three star-like objects were noticed in the sky.Two objects to the north and one to the south , all of which were about 10 degrees off the horizon. The objects moved rapidly in sharp angular movements and displayed red, green and blue lights. The objects to the north appeared to be elliptical thro-ugh an 8-12 power lens. They then turned to full circles. The objects to the north remained in the sky for an hour or more. The object to the south was visible for two or three hours and beamed down a stream of light from time to time. Numerous individuals, including the unde-rsigned, witnessed the activities in paragraphs 2 and 3.

CHARLES I. HALT, Lt Col, USAF

Deputy Base Commander

FOIA # 22
CUFON Computer UFO Network
Date Sent: 07-12-1986
Subject: 1975 B.GOLDWATER,REQ-INFO

BARRY GOLDWATER
Arizona

Committees:
Aeronautical & Space Sci.
Armed Services
Preparedness Inv Subcommit
Tactical Air Power Subcomm
N. S. Naval Petroleum
Reserves Subcommittee

UNITED STATES SCNATE
Washington D.C. 20510

March 28, 1975

Mr.Shlomo Arnon
U.C.L.A. Experimental College
308 Westwood Plaza
Los Angeles, California 90024

Dear Mr.Arnon:

The subject of UFOs is one that has interested me for some time. About ten or twelve years ago I made an effort to find out what was in the building at Wright Patterson Air Force Base where the information is stored that has been collected by the Air Force, and I was understandably denied this request.

It is still classified above Top Secret. I have, however, heard that

there is a plan under way to release some, if not all, of this material in the near future. I'm just as anxious to see this material as you are, and I hope we will not have to wait too much longer.

Sincerely.

Barry Goldwater

FOIA # 23
CUFON Computer UFO Network
Date Sent: 07-12-1986
Subject: 1981 GOLDWATER,LETTER # 2

BARRY GOLDWATER

Cmmittees:

Intelligence Chairman
Armed Services
Tactical Warfare.Chair
Preparedness
Strategic Nuclear Force
Communications Chairman
Aviation
Science Technology and Space
Indian Affairs

UNITED STATES SENATE
Washington D.C. 20510

October 19,1981

Mr. Lee M. Grahan:
526 West Maple
Monrovia, California 91016

Dear Mr.Graham:

First, let me tell you that I have long ago give up acquiring access to the so-called Blue Room at Wright-Patterson, as I have had one long string of deials from chief after chief, so I have give up.

In answer to your questions, "one is essentially correct." I don't know of anyone who has access to the "Blue Room," nor am I aware of its contents and I am not aware of anything having been relocated. I can't answer your question six, in fact, I can't find anyone who would answer it.

To tell you the truth, Mr Graham, "this thing has gotten so highly classified," ecen though I will admit there is a lot of it that has been released, "it is just impossible to get anything on it."

I am returning your papers because I know they are of value to you.

Sincerely,

Barry Goldwater

FOIA # 24
CUFON Computer UFO Network

Date Sent: 07-12-1986
Subject: 1983 GOLDWATER,LETTER # 3

BARRY GOLDWATER

Committees:

Intelligence Chairman
Armed Services
Tactical Warfare Chair
Preparedness
Strategic Nuclear Forces
C. S. Transportation
Communications Chairman
Aviation
Science Technology and Space
Indian Affairs

UNITED STATES SENATE

Washington D.C. 20510

June 20, 1983

Mr. William S. Steinman
15043 Rosalita Drive
La Mirada, California 90638

Dear Mr.Steinman:

To answer your questions, I have never gained access to the so-called "Blue Room" at Wright Patterson, so I have no idea what is in it. I have no idea of who controls the flow of "need-to-know" because, frankly, I was told in such an emphatic way that it was none of my business that I've never tried to made it my business since.

I wish you luck on your investigation. I'm one of those people who believe that with some two billion planets scattered around our universe, there has to be a couple of more that can subport life on it.

Sincerely,

Barry Goldwater

FOIA # 25
CUFON Computer UFO Network
From: UFO INFO SERVICE
Date Sent: 07-20-1986
Subject: 1942 MEMO FOR PRESIDENT

SECRET

February 26, 1942.

OCS 21347-86

MENORANDUM FOR THE PRESIDENT:

The following is the information we have from GHQ at this mement regarding the air alarm over Los Angeles of yesterday morning:

"From details available at this hour:

1. Unidentified airplanes, other then American Army or Navy planes, were probably over Los Angeles, and were fired on by elements of the 37th CA Brigade (AA) between 3:12 and 4:15 AM. These units expended 1430 rounds of ammunition.

2. As many as fifteen airplanes may have been involved, flying at various speeds from what is officially reported as being very slow to as much as 200 MPH and at elevations from 9000 to 18000 feet.

3. No bombs were dropped.

4. No casualties among our troops.

5. No planes were shot down.

6. No American Army or Navy planes were in action.

Investigation continuing. It seems reasonable to conclude that if unidentified airplanes were involved they may have been from commercial sources, operated by enemy agents for purposes of spreeding alarm, disclosing location of antiaircraft positions, and slowing production through blackout. Such conclusion is supported by varying speed of operation and the fact that no bombs were dropped.

Gen. George C. Marshall

Chief Of Staff

FOIA # 26
CUFON Computer UFO Network
Date Sent: 07-21-1986
Subject: 1950 W.B. SMITH MEMO

TOP SECRET

CONFIDENTIAL

DEPARTMENT OF TRANSPORT

INTRA-DEPARTMENTAL CORRESPONDENCE

OTTAWA, Ontario, November 21, 1950

PLACE DATE

YOUR FILE	SUBJECT	OUR FILE
	Geo-Magnetics	(R.ST.)

MEMORANDUM TO THE CONTROLLER OF TELECOMMUNICATIONS:

For the past several years we have been engaged in the study of various aspects of radio wave propagation. The vagaries of this phenomenon have led us into the fields of aurora, cosmis radiation, atmospheric radio-activity and geo-magnetism. In the case of geo-magnetics our investigations have contributed little to our knowledge of radio wave propagation as yet, but nevertheless have indicated several avenues of investigation which may well be explored with profit. For example, we are on the track of a means whereby the potential energy of the earth's magnetic field may be abstracted and used.

On the basis of theoretical considerations a small and very crude experimental unit was constructed approximately a year ago and tested in our Standards Laboratory. The tests were essentially successful in that sufficient energy was abstracted from the earth's field to operate a voltmeter, approximately 50 milliwatts. Although this unit was far from being self-sustaining, it nevertheless demonstrated the soundness of the basic principles in a qualitative manner and provided useful data for the design of a better unit.

The design has now been completed for a unit which should be self-sustaining and in addition provide a small surplus of power. Such a unit, in addition to functioning as a `pilot power plant' should be large enough to permit the study of the various reaction forces which are expected to develop.

We believe that we are on the track of something which may well prove to be the introduction to a new technology. The existence of a different technology is borne out by the investigations which are being carried on at the present time in relation to flying saucers.

While in Washington attending the NARB Conference, two books were released, one titled "Behind the Flying Saucer" by Frank Scully, and the other "The Flying Saucers are Real" by Donald Keyhoe. Both books dealt mostly with the sightings of unidentified objects and both books claim that flying objects were of extra-terrestrial origin and might well be space ships

...... 2

---

from another planet. Scully claimed that the preliminary studies of one saucer which fell into the hands of the United States Government indicated that they operated on some hitherto unknown magnetic principles. It appeared to me that our own work in geo-magnetics might well be the linkage between our technology and the technology by which the saucers are designed and operated. If it is assumed that our geo-magnetic investigations are in the right direction, the theory of operation of the saucers becomes quite straight forward, with all observed features explained qualitatively and quantitatively.

I made discreet enquiries through the Canadian Embassy staff in Washington who were able to obtain for me the following information:

a. The matter is the most highly classified subject in the United States Government, rating higher even than the H-bomb.

b. Flying saucers exist.

c. Their modus operandi is unknown but concentrated effort is being made by a small group headed by Doctor Vannevar Bush.

d. The entire matter is considered by the United States authorities to be of tremendous significance.

I was further informed that the United States authorities are investigating along quite a nubmer of lines which might possibly be related to the saucers such as mental phenomena and I gather that they are not doing too well since they indicated that if Canada is doing anything at all in geo-magnetics they would welcome a discussion with suitably accredited Canadians.

While I am not yet in a position to say that we have solved even the first problems in geo-magnetic energy release, I feel that the correlation between our basic theory and the available information on saucers checks too closely to be more coincidence. It is my honest opinion that we are on the right track and are fairly close to at least some of the answers.

Mr. Wright, Defence Research Board liaison officer at the Canadian Embassy in Washington, was extremely anxious for me to get in touch with Doctor Solandt, Chairman of the Defence Research Board, to discuss with him future investigations along the line geo-magnetic energy release.

FOIA # 28
CUFON Computer UFO Network
Date Sent: 07-21-1986
Subject: 1950 W.B.SMITH MEMO #3

I do not feel that we have as yet sufficient data to place before Defence Research Board which would enable a program to be initiated within that organization, but I do feel that further research is necessary and I would prefer to see it done within the frame work of our own organization with, of course, full co-operation and exchange of information with other interested bodies.

I discussed this matter fully with Doctor Solandt, Chairman of Defence Research Board, on November 20th and placed before him as much information as I have been able to gather to date. Doctor Solandt agreed that work on geo-magnetic energy should go forward as rapidly as possible and offered full co-operation of his Board in providing laboratory facilities, acquisition of necessary items of equipment, and specialized personnel for incidental work in the project. I indicated to Doctor Solandt that we would prefer to keep the project within the Department of Transport for the time being until we have obtained sufficient information to permit a complete assessment of the value of the work.

It is therefore recommended that a PROJECT be set up within the frame work of this Section to study this problem and that the work be carried on a part time basis until such time as sufficient tangible results can be seen to warrant more definitive action. Cost of the program in its initial stages are expected to be less than a few hundred dollars and can be carried by our Radio Standards Lab appropriation.

Attached hereto is a draft of terms of reference for such a project which, if authorized, will enable us to proceed with this research work within our own organization.

(W.B. Smith)
Senior Radio Engineer

WBS/cc

FOIA # 29
CUFON Computer UFO Network
Date Sent: 07-26-1986
Subject: 1953 GEN.BURGESS 4602nd

DECLASSIFIED PER EXECUTIVE ORDER 12356, Section 3.3, NND 841508
By WG Lewis NARS, Date Jan 29, 1985

CONFIDENTIAL

Brig. General W. M. Burgess 23 DEC 1953
Deputy for Intelligence
Air Defense Command
Ent Air Force Base
Colorado Springs, Colorado

Dear Woody:

In your new function in the Unidentified Flying Object Program, it is our understanding that your 4602nd people will do the "leg work" so to speak, and furnish ATIC with its findings. For those types that cannot be identified by your Squadron, ATIC will handle from an exploratory point of view.

Many times the publicity connected with this program has been somewhat embarrassing, in that we are dealing with a subject, parts of which, are not explainable, and the public feeling is that we are holding back information they should know about.

Due to a policy letter General Samford wrote this Directorate a while back, this office has assumed motorship of releases to the public. I would like to quote the last sentence of General Samford's letter as it pertains to publicity:

> "The Directorate of Intelligence, USAF, will resist consistently any idea that a releasable story can be developed about any intelligence activity, process, or experience."

As you realize, there is a 10-20% area of unexplainable objects, in this program. Also, for this area, we believe General Samford's statement above applies, in that it deals in an intelligence process performed by ATIC. Therefore, we would like to offer you guidance in the publicity angle as it pertains to your activity.

CONFIDENTIAL

Continued in Part 4

--

-* Don Allen *- InterNet: dona@bilver.UUCP // Amiga..for the rest of us.
USnail: 1818G Landing Dr, Sanford Fl 32771 \X/ Why use anything else? :^)
UUCP: ..uunet!tarpit!bilver!vicstoy!dona   0110 0110 0110 Just say NO!
Illuminati < MJ-12|Grudge|TLC|CFR|FED|EEC|Bush > WAR = "New World Order"

^=========================
ufo/aliens #144, from Cix_UseNet, 24143 chars, May 22 02:05 91

TITLE: INFO:FOIA files on UFO's Part 4

+From   : dona@bilver.uucp (Don Allen)
+Subject   : INFO:FOIA files on UFO's Part 4

---Part 4 continued-----

FOIA # 30
CUFON Computer UFO Network
Date Sent: 07-26-1986
Subject: 1953GEN.BURGESS 4602nd #2

DECLASSIFIED PER EXECUTIVE ORDER 12356, Section 3.3, NND 841508
By WG Lewis   NARS, Date Jan 29, 1985.

AFOIN-X/Lt Col Smith/tjc/71092
Wrtn 21 Dec 53

CONFIDENTIAL

We think it would be well for your 4602nd people in the ZI, to discuss a particular sighting with the public or press, anytime the object can be identified. Meaning, if they can verify the object as a balloon, aircraft, helicopter, etc., go ahead and inform interested parties. However, for those times where the object is not explainable, it would be well to advise your people to say something on this order, "The information on this sighting will be analyzed by the Air Technical Intelligence Center at Dayton, Ohio", and leave it go at that. If your people get into analyzing the 10-20% area to the public, every news media across the country will pick up the story.

For your information, we have requested ATIC to submit to this office, a report that can be released to the public. If you desire we could forward to your office a copy of this report, that could be used by your agency, for release purposes.

Sincerely yours,

1 Incl
Cy of RSR #1
to ATIC dtd
21 Dec 53 fr D/I

GEORGE E PERRY
Colonel, USAF
Directorate of Intelligence

P.S. I am informed this letter is somewhat pre-mature, in that complete coordination has not effected on the regulation that puts you in this business; however, you might be able to use this in your pre-planning.

OSAF-OP1 LT. R.C. WHITE

AFOIN-X AFOIN-X

Lt Col Smith Col Perry 2

CONFIDENTIAL

FOIA # 31
CUFON Computer UFO Network
Date Sent: 07-26-1986
Subject: 1973 HELICOPTER ENCOUNTER

DISPOSITION FORM
AR 340-15: the proponent agency is The Adjutant General's Office.

Reference Office Symbol) Subject
)
) Near Midair Collision with UFO Report

To Commandor
83D USARCOM
ATTN: AHRCCG
Columbus Support Facility

Flight Operations Off DATE 23 Nov 73 Cmt 1
USAR Flight Facility
Cleveland Hopkins Airport
Cleveland, Ohio 44135

1. On 18 October 1973 at 2305 hours in the vicinity of Mansfield, Ohio, Army Helicopter 68-15444 assigned to Cleveland USARFFAC encountered a near midair collision with a unidentified flying object. Four crewmembers assigned to the Cleveland USARFFAC for flying proficiency were on AFTP status when this incident occurred. The flight crew assigned was CPT Lawrence J. Coyne, Pilot in Command,1LT Arrigo Jozzi, Copilot, SSG Robert Yanacsek, Crew Chief, SSG John Healey,Flight Medio,All the above personnel are member of the 316th MED DET(HEL AMB). a tenant reserve unit of the Cleveland USARFFAC.

2. The reported incident happened as follows: Army Helicopter 68-15444 was returning from Columbus, Ohio to Cleveland, Ohio and at 2305 hours east, south east of Mansfield Airport in the vicinity of Mansfield, Ohio while flying at an altitude of 2500 feet and on a heading of 030 degrees, SSG Yanacsek observed a red light on the east horizon,90 drgrees to the flight path of the helicopter. Approximately 30 seconds later, SSG Yanacsek indicated the object was converging on the helicopter at the same altitude at a airspeed in excess of 600 knots and on a midair collision heading.

Cpt Coyne observed the converging object, took over the controls of the aircraft and initiated a power descent from 2500 feet to 1700 feet to avoid impact with the object. A radio call was initiated to Mansfield Tower who acknowledged the helicopter and was asked by CPT Coyne if there were any high performance aircraft flying in the vicinity of Mansfield Airport however there was no response received from the tower. The crew expected impact from the object instead, the object was observed to hesistate momontarily over the helicopter and then slowly continued on a westerly course accelerating at a high rate of speed, clear west of Mansfield Airport then turn 45 degree heading to the Northwest.
Cpt Coyne indicated the altimeter read a 1000 fpm olimp and read 3500 feet with the collective in the full down position. The aircraft was returned to 2500 feet by CPT Coyne and flown back to Cleveland, Ohio. The flight plan was closed and the FAA Flight Service Station notified of the incident. The FSS told CPT Coyne to report the incident to the FAA GADO office a Cleveland Hopkins Airport Mr. Porter, 83d USARCOM was notified of the incident at 1530 hours on 19 Oct 73.

3. This report has been read and attested to by the crewmembers of the aircraft with signatures acknowledgeing this report.

Lawrence J. Coyne	Arrigo Jozzi
Robert Yanacsek	John Healey

DA FORM 2496

FOIA # 32
CUFON Computer UFO Network
Date Sent: 07-30-1986
Subject: 1976 IRAN INTERCEPT CASE

---

56 UNCLASSIFIED
PRIORITY

OCT1 MSG654 PAGE 01 267 0813

ACTION: NONF-OR.
INFO:
ATCZY UW RUFK JCS 97 17 76-0810 MTMS-CCCC--RJFFHQA_.

NY CCCCC
P 2308107 SEP 76
FM JCS
INFO RUSHC/SECSTATE WASH DC
RUFAIIF/C I A
RUFOIAH/NSA WASH DC
RUFADWW/WHITE HOUSE WASH DC
RUFFHQA/CSAF WASH DC
RUFNAAA/CNO WASH DC
RUFADHD/CSA WASH DC
P 2306307 SEP 76
FM USOAO TEHRAN
TO RUFK.ICS/OIA WASH DC
INFO RUFKUCS/SECDEF DEPSECDEF WASH DC
RUFRBAA/COMIDFASTF OR
RUDOECA/CINCUSAFF LINDSEY AS GE/INCF
RHRAAB/CINCUSAFF RAMSTEIN AB GE/INOCN
RUSNAAA/FUDAC VAIHINGEN GER
RUSNAAA/UGCINCEUR VAIHINGEN GER/ECJ-2
RT
C O N F I D E N T I A L 1235 SEP76
THIS IS IR 6 846 0139 76
1. (U) IRAN
2. REPORTED UFO SIGHTING (U)
3. (U) NA
4. (U) 19 & 20 SEP 76
5. (U) TEHRAN. IRAN: 20 SEP 76
6. (U) F-6
7. (U) 6 846 008 (NOTE RO COMMENTS)
8. (U) 6 846 0139 76
9. (U) 22SEP 76
10. (U) NA
11. (U) `INITIATE' IPSP PT-1440
12. (U) USDAO. TEHRAN. IRAN
13. (U) FRANK B. MCKENZIE. COL. USAF. :DA TT
14. (U) NA
15. (U) THIS REPORT FORWARDS INFORMATION CONCERNING THE SIGHTING OF AN UFO IN IRAN ON :19 SEPTEMBER 1976.

A. AT ABOUT 1230 AM ON 19 SEP 76 THE ------------------------------ ----------------------------RECEIVED FOUR TELEPHONE CALLS FROM CITIZENS LIVING IN THE SHEMIRAN AREA OF TEHRAN :SAYING

UNCLASSIFIED
PRIORITY

FOIA # 33
CUFON Computer UFO Network
Date Sent: 07-30-1986
Subject: 1976 IRAN INTERCEPT CASE

THAT THEY HAD SEEN STRANGE OBJECTS IN THE SKY. SOME REPORTED A KIND OF BIRD-LIKE OBJECT WHILE OTHERS REPORTED A HELICOPTER WITH A LIGHT ON. THERE WERE NO HELICOPTERS AIRBORNE AT THAT TIME.------------------------ ------------------------ AFTER. HE TOLD THE CITIZEN IT WAS ONLY STARS AND HAD TALKED TO MEHRABAD TOWER HE DECIDED TO LOOK FOR HIMSELF. HE NOTICED AN OBJECT IN THE SKY SIMILAR TO A STAR BIGGER AND BRIGHTER. HE DECIDED TO SCRAMBLE AN F-4 FROM SHAHROKHI AFB TO INVESTIGATE.

B. AT 0130 HRS ON THE 19TH THE F-4 TOOK OFF AND PROCEEDED TO A POINT ABOUT 40 NM NORTH OF TEHRAN. DUE TO ITS BRILLIANCE THE OBJECT WAS EASILY VISIBLE FROM 70 MILES AWAY. AS THE F-4 APPROACHED A RANGE OF 25 NH HE LOST ALL INSTRUMENTATION AND COMMUNICTIONS (UHF AND INTERCOM). HE BROKE OFF THE INTERCEPT AND HEADED BACK TO SHAHROKHI. WHEN THE F-4 TURNED AWAY FROM THE OBJECT AND APPARENTLY WAS NO LONGER A THREAT TO IT THE AIRCRAFT REGAINED ALL INSTRUMENTATION AND COMMUNICATIONS. AT 0140 HRS A SECOND F-4 WAS LAUNCHED. THE BACKSEATER ACQUIRED A RADAR LOCK ON AT 27 NH. 12 O'CLOCK HIGH POSITION WITH THE VC (RATE OF CLOSURE) AT 150 NHPH. AS THE RANGE DECREASED TO 25 NH THE OBJECT MOVED AWAY AT A SPEED THAT WAS VISIBLE ON THE RADAR SCOPE AND STAYED AT 25 NH.

C. THE SIZE OF THE RADAR RETURN WAS COMPARABLE TO THAT OF A 707 TANKER. THE VISUAL SIZE OF THE OBJECT WAS DIFFICULT TO DISCERN BECAUSE OF ITS INTENSE BRILLIANCE. THE LIGHT THAT IT GAVE OFF WAS THAT OF FLASHING STROBE LIGHTS ARRANGED IN A RECTANGULAR PATTERN AND ALTERNATING BLUE-GREEN, RED AND ORANGE IN COLOR. THE SEQUENCE OF THE LIGHTS WAS SO FAST THAT ALL THE COLORS COULD BE SEEN AT ONCE. THE OBJECT AND THE PURSUING F-4 CONTINUED ON A COURSE TO THE SOUTH OF TEHRAN WHEN ANOTHER BRIGHTLY LIGHTED OBJECT, ESTIMATED TO BE ONE HALF TO ONE THIRD THE APPARENT SIZE OF THE MOON, CAME OUT OF THE ORIGINAL OBJECT. THIS SECOND OBJECT HEADED STRAIGHT TOWARD THE F-4 AT A VERY FAST RATE OF SPEED. THE PILOT ATTEMPTED TO FIRE AN AIM-9 MISSILE AT THE OBJECT BUT AT THAT INSTANT HIS WEAPONS CONTROL PANEL WENT OFF AND HE LOST ALL COMMUNICATIONS (UHF AND INTERPHONE) AT THIS POINT THE PILOT INITIATED A TURN AND NEGATIVE G DIVE TO GET AWAY. AS HE TURNED THE OBJEAZ FELL IN TRAIL AT WHAT APPEARED TO BE ABOUT 3-4 NH. AS HE CONTINUED IN HIS TURN AWAY FROM THE PRIMARY OBJECT THE SECOND OBJECT WENT TO THE INSIDE OF HIS TURN THEN RETURNED TO THE PRIMARY OBJECT FOR A PERFECT REJOIN.

D. SHORTLY AFTER THE SECOND OBJECT JOINED UP WITH THE PRIMARY OBJECT ANOTHER OBJECT APPEARED TO COME OUT OF THE

OCT1 MS6654 PAGE 03 267 0813

OTHER SIDE OF THE PRIMARY OBJECT GOING STRAIGHT DOWN. AT A GREAT RATE OF SPEED. THE F-4 CREW HAD REGAINED COMMUNICATIONS AND THE WEAPONS CONTROL PANEL AND WATCHED THE OBJECT APPROACH THE GROUND ANTICIPATING A LARGE EXPLOSION. THIS OBJECT APPEARED TO COME TO REST GENTLY ON THE EARCH AND CAST A VERY BRIGHT LIGHT OVER AN AREA OF ABOUT 2-3 KILOMETERS.
THE CREW DESCENDED FROM THEIR ALTITUDE OF 26H TO 15H AND CONTINUED TO OBSERVE AND MARK THE OBJECT'S POSITION. THEY HAD SOME DIFFICULTY IN ADJUSTING THEIR NIGHT VISIBILITY FOR LANDING SO AFTER ORBITING MEHRABAD A FEW TIMES THEY WENT OUT FOR A STRAIGHT IN LANDING. THERE WAS A LOT OF INTERFERENCE ON THE UHF AND EACH TIME THEY PASSED THROUGH A MAG. BEARING OF 150 DEGREE FROM EHRABAD THEY LOST THEIR COMMUNICATIONS (UHF AND INTERPHONE) AND THE INS FLUCTUATED FROM 30 DEGREES - 50 DEGREES. THE ONE CIVIL AIRLINER THAT WAS APPROACHING MEHRABAD DURING THIS SAME TIME EXPERIENCED COMMUNICATIONS FAILURE IN THE SAME VICINITY (KILO ZULU) BUT DID NOT REPORT SEEING ANYTHING. WHILE THE F-4 WAS ON A LONG FINAL APPROACH THE CREW NOTICED ANOTHER CYLINDER SHAPED OBJECT (ABOUT THE SIZE OF A T-BIRD AT 10M) WITH BRIGHT STEADY LIGHTS ON EACH END AND A FLASHER IN THE MIDDLE. WHEN QUERIED THE TOWER STATED THERE WAS NO OTHER KNOWN TRAFFIC IN THE AREA. DURING THE TIME THAT THE OBJECT PASSED OVER THE F-4 THE TOWER DID NOT HAVE A VISUAL ON IT BUT PICKED IT UP AFTER THE PILOT TOLD THEM TO LOOK BETWEEN THE MOUNTAINS AND THE REFINERY.

E. DURING DAYLIGHT THE F-4 CREW WAS TAKEN OUT TO THE AREA IN A HELICOPTER WHERE THE OBJECT APPARENTLY HAD LANDED. NOTHING WAS NOTICED AT THE SPOT WHERE THEY THOUGHT THE OBJECT LANDED (A DRY LAKE BED) BUT AS THEY CIRCLED OFF TO THE WEST OF THE AREA THEY PICKED UP A VERY NOTICEABLE BEEPER SIGNAL. AT THE POINT WHERE THE RETURN WAS THE LOUDEST WAS A SMALL HOUSE WITH A GARDEN. THEY LANDED AND ASKED THE PEOPLE WITHIN IF THEY HAD NOTICED ANYTHING STRANGE LAST NIGHT. THE PEOPLE TALKED ABOUT A LOUD NOISE AND A VERY BRIGHT LIGHT LIKE LIGHTNING. THE AIRCRAFT AND AREA WHERE THE OBJECT IS BELIEVED TO HAVE LANDED ARE BEING CHECKED FOR POSSIBLE RADIATION ---------------------
----
MORE INFORMATION WILL BE FORWARDED WHEN IT BECOMES AVAILABLE.

RT
#9717
PTCCZYUW RUFKJCS9712 2670810:0130-CCCC 2670814

PRIORITY UNCLASSIFIED

FOIA # 35
CUFON Computer UFO Network
Date Sent: 09-15-1986
Subject: 1986 BRAZILIAN FOIA

DEFENSE INTELLIGENCE AGENCY
Washington, D.C. 20301-6111

U-4,339/RTS-1

Mr. ______________

____

____

____

Dear Mr. __________:

This responds to your request under the Freedom of Information Act dated 11 June 1986 for any documents concerning UFOs, any documents received from U.S. Embassies concerning the Brazilian UFO incident, and all documents pertaining to PROJECT MOON DUST.

Upon review, it has been determined that there are 61 documents responsive to your request. Of these 61 documents, portions of 16 are properly classified and are not releasable. The properly classified portions withheld are exempt from release pursuant to 5 U.S.C. 552 (b)(1), (b)(3), and (b)(5), Freedom of Information Act. Subsection (b)(1) applies to information properly classified under the criteria provided by Executive Order 12356. The statutory basis for invoking subsection (b)(3) is to be found at 50 U.S.C. 402, NOTE (Public Law 86-36). Subsection (b)(5) applies to inter- and intra-agency memoranda which are advisory in nature. All reasonably segregable portions of the 16 documents, absent administrative and classification data, are attached hereto.

All substantive portions of three other documents are properly classified and are not releasable. There are no reasonably segregable portions of this exempt material. The properly classified portions withheld are exempt from release pursuant to 5 U.S.C. 552 (b)(1), Freedom of Information Act. The remaining material is not forwarded because it is routinely deleted administrative and classification data unrelated to the subject matter of the request.

The remaining 42 documents are attached hereto, absent administrative and classification data. You are advised that the documentation provied is the most legible available from our archives.

You are advised that a requester may appeal, within 45 working days, an initial decision to withhold a record or part thereof. Should you wish to exercise this right, you may do so by referring to case #F0I-0504-86 and addressing your appeal to:

Director
Defense Intelligence Agency
ATTN: RTS-1 (FOIA)
Washington, D.C. 20301-6111

Sincerely,

GORDON NEQUS
Executive Director

58 enclosures a/s

FOIA # 36

CUFON Computer UFO Network
Date Sent: 09-22-1986
Subject: 1980 BRAZILIAN FOIA

```
                   DEPARTMENT OF DEFENSE
                   Joint Chiefs of Staff
                      Message Center            RECEIVED

                                              JUN - 3 1980
VZOZCMLT565                        7YUW
MULT                                          DIA RT3 - 2B
ACTION                                                       18134
     DIA:
DISTR
     IADB(01) J5(02) JE:NMCC NIDS SECDEF(07) SECDEF: USDP(15)
     ATSD:AE(01) ASD:PA&E(01) ::DIA(20) NMIC
-    CMC CC WASHINGTON DC
-    CSAF WASHINGTON DC
-    CNO WASHINGTON DC
-    CSA WASHINGTON DC
-    CIA WASHINGTON DC
-    SFCSTATE WASHINGTON DC
-    NSA WASH DC
     FILE
(047)
```

TRANSIT/1542115/1542207/0001525941542204
DE RUESLMA #4888 1542115
7NY CCCCC
R 0220527 JUN 80
FM USDAD LIMA PERU
TO RUEKJCS/DIA WASHDC
INFO RULPALJ/USCINCSO QUARRY HTS PN
RULPAFA/USAFSO HOWARD AFB PN
BT

SUBJ: IR 6 876 0146 80 (U)
THIS IS AN INFO REPORT, NOT FINALLY EVAL INTEL
1. (U) CTRY: PERU (PE)
2. TITLE (U) UFO SIGHTED IN PERU (U)
3. (U) DATE OF INFO: 800510
4. (U) ORIG: USDAD AIR LIMA PERU
5. (U) REQ REFS: Z-D13-PE030
6. (U) SOURCE: 6 876 0138. OFFICER IN THE PERUVIAN AIR FORCE WHO OBSERVED THE EVENT AND IS IN A POSITION TO BE PARTY TO CONVERSATION CONCERNING THE EVENT. SOURCE HAS REPORTED RELIABLY IN THE PAST.

7. SUMMARY: SOURCE REPORTED THAT A UFO WAS SPOTTED ON TWO DIFFERENT OCCASIONS NEAR PERUVIAN AIR FORCE (FAP) BASE IN SOUTHERN PERU. THE FAP TRIED TO INTERCEPT AND DESTRY THE UFO, BUT WITHOUT SUCCESS.

FOIA # 37
CUFON Computer UFO Network
Date Sent: 09-22-1986
Subject: 1980 BRAZIL.FOIA PAGE 2

DEPARTMENT OF DEFENSE
Joint Chiefs of Staff
Message Center

PAGE 2 18134

8A. DETAILS: SOURCE TOLD RO ABOUT THE SPOTTING OF AN UNIDENTIFIED FLYING OBJECT IN THE VICINITY OF MARIANO MELGAR AIR BASE, LA JOYA, PERU (168058, 0715306W). SOURCE STATED THAT THE VEHICLE WAS SPOTTED ON TWO DIFFERENT OCCASIONS. THE FIRST WAS DURING THE MORNING HOURS OF 9 MAY 80, AND THE SECOND DURING THE EARLY EVENING HOURS OF 10 MAY 80.

SOURCE STATED THAT ON 9 MAY, WHILE A GROUP OF FAP OFFICERS WERE IN FORMATION AT MARIANO MALGAR, THEY SPOTTED A UFO THAT WAS ROUND IN SHAPE, HOVERING NEAR THE AIRFIELD. THE AIR COMMANDER SCRAMBLED AN SU-22 AIRCRAFT TO MAKE AN INTERCEPT. THE PILOT, ACCORDING TO A THIRD PARTY, INTERCEPTED THE VEHICLE AND FIRED UPON IT AT VERY CLOSE RANGE WITHOUT CAUSING ANY APPARENT DAMAGE. THE PILOT TRIED TO MAKE A SECOND PASS ON THE VEHICLE, BUT THE UFO OUT-RAN THE SU-22.

THE SECOND SIGHTING WAS SURING HOURS OF DARKNESS. THE VEHICLE WAS LIGHTED. AGAIN AN SU-22 WAS SCRAMBLED, BUT THE VEHICLE OUT-RAN THE AIRCRAFT.

8B. ORIG CMTS: RO HAS HEARD DISCUSSION ABOUT THE SIGHTING FROM OTHER SOURCES. APPARENTLY SOME VEHICLE WAS SPOTTED, BUT ITS ORIGIN REMAINS UNKNOWN.

9. (U) PROJ NO: N/A
10. (U) COLL MGMT CODES: AB
11. (U) SPEC INST: NONE. DIRC: NO.
12. (U) PREP BY: NORMAN h. RUNGE, COL. AIRA
13. (U) APP BY: VAUGHN E. WILSON, CAPT, DATT, ALUSNA
14. (U) REQ EVAL: NO REL TO: NONE
15. (U) ENCL: N/A
16. (U) DIST BY ORIG: N/A

BT
#4888
ANNOTES
JAL 117

NNNN
0222087

FOIA # 38
CUFON Computer UFO Network
Date Sent: 09-22-1986
Subject: 1977 FAA REPORT

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

AIR ROUTE TRAFFIC CONTROL CENTER
1801 East Loula Street
Olathe, Kansas 6606l

FEDERAL AVIATION
ADMINISTRATION

APR 14 1977

Mr. ___________________
____
____
____

Dear Sir:

I am in receipt of your letter concerning your research on the mystery of Unidentified Flying Objects (UFOs) and I understand that you are participating in an international effort to establish contact with persons having past experiences involving UFOs.

In June 1970, I had occasion to come in direct contact with a UFO. I was stationed in San Juan, Puerto Rico, with the Federal Aviation Administration (FAA) and was flying with the Puerto Rico Air National Guard. In the early morning, a report had been received from two air carriers; Pan American, and a local carrier, Caribair, that at dawn a large balloon-like object was sighted drifting slowly southwestward at an approximate altitude of 5,000 to 7,000 feet. The object was detected on the Air Route Traffic Control Center radar and subsequently tracked. Movement appeared to be in a southwesterly direction at 4 to 8 knots per hour, varying slightly hour to hour. I was a member of a flight of 104s and a T-33 aircraft that went to the site where the object had been sighted to observe and to photograph it if possible. The object was visible from the ground at Isla Verde Airport, San Juan, Puerto Rico, lying low in the skies on a south southwesterly heading. Its appearance was similar to a balloon. After becoming airborne and flying towards the object, it became immediately apparent that it was at a very high altitude and was quite a distance away. The object was approximately 40 miles southwest of Ponce, Puerto Rico, at an altitude in excess of 60,000 feet, estimated roughly at 80,000 feet. Myself in a T-33 and four other pilots in f104s observed and photographed the object. The following details are noted:

1. It was a manufactured item.

2. It was at least 125 feet in width with the same approximate

length.

3. It was shaped similar to the forward one-third of a speedboat hull with a flat rear section and a pointed nose section. (See sketch.)

4. There was an area of high reflectivity on the "keel" approximately one-third from the nose of the object. (See sketch.)

FOIA # 39
CUFON Computer UFO Network
Date Sent: 09-22-1986
Subject: 1977 FAA REPORT PAGE 2

----

5. The object remained oriented in a northeasterly/southwesterly direction with the nose pointed northeast; the stern to the southwest, and drifting slowly against the prevailing winds to the southwest about 8 knots per hour.

6. There were no signs of any type of propulsion unit on the object.

Extensive gun-camera film was collected showing the object very closely. A B-52 from Ramey Air Force Base acquired the target on the radar. Upon "locking on," the B-52 received electronic jamming. The object was kept in surveillance throughout the remainder of the daylight hours and was lost after dark.

The prevailing weather at the time of the incident was clear skies and unlimited visibility. The object was viewed by the majority of the population of the island of Puerto Rico; visible in plain sight for most of the day, and reported to all military intelligence activities, National Weather Service, etc. We have yet to receive a satisfactory explanation as to what the object was. The San Juan Star published a series of articles concerning the incident.

I am presently the Deputy Chief at the Kansas City Air Route Traffic Control Center and would welcome any additional inquiries on this subject and perhaps I could direct you to where film could be obtained of the object.

Thank you,

CHARLES M. BUMSTEAD, Deputy Chief
Kansas City ARTC Center

Continued in Part 5

--
-* Don Allen *- InterNet: dona@bilver.UUCP // Amiga..for the rest of us.
USnail: 1818G Landing Dr, Sanford Fl 32771 \X/ Why use anything else? :^)
UUCP: ..uunet!tarpit!bilver!vicstoy!dona   0110 0110 0110 Just say NO!
Illuminati < MJ-12|Grudge|TLC|CFR|FED|EEC|Bush > WAR = "New World Order"

^=========================
ufo/aliens #142, from Cix_UseNet, 27031 chars, May 22 02:07 91

TITLE: INFO:FOIA files on UFO's Part 5 (FINAL)

+From   : dona@bilver.uucp (Don Allen)
+Subject   : INFO:FOIA files on UFO's Part 5 (FINAL)

---Part 5 FINAL ---

FOIA # 40
CUFON Computer UFO Network
Date Sent: 09-30-1986
Subject: 1978 BLUEFLY & MOONDUST

DEPARTMENT OF THE AIR FORCE

WASHINGTON 20330

OFFICE OF THE SECRETARY
____

13 November 1978

Mr.______________________
____
____

Dear Mr.________________:

This is in response to your letter of October 21, 1978 requesting information on MOONDUST AND BLUEFLY.

BLUEFLY was a project for the acquisition of airlift for a quick reaction capability. It was determined that the need did not exist and the project was discontinued several years ago.

MOONDUST is a program in which the Air Force provides technical assistance in determining the origin of space debris, U.S. or foreign.

These programs are under the purview of Air Force Systems Command, Andrews AFB, MD, 20034. Please write to the Director of Information there, if you desire additional data. He may be able to help.

Sincerely,

ALBERT W. SCHUMANN
Colonel, USAF
Deputy Chief
Community Reations Division
Office of Information

RECEIVED 16 NOV 1978

FOIA # 41
CUFON Computer UFO Network
Date Sent: 09-30-1986
Subject: 1979 BLUEFLY & MOONDUST

DEPARTMENT OF THE AIR FORCE

WASHINGTON 20330

OFFICE OF THE SECRETARY   20 AUG 1979

Mr.______________________
____
____

Dear Mr.________________:

This letter is in reference to your appeal from the decision of the Assistant Chief of Staff, Intelligence, partially denying your request for a copy of a Biographical Sketch, dated 1 January 1957; two AFCIN memoranda, dated 11 February 1958 and 26 December (no year indicated); the AFCIN-1E-0 letter, dated 3 November 1961; the AFOIN-X(SG) memo, dated 29 April 2952; and the AFOIN-SSG letter.

The Office of the Secretary of the Air Force has considered your appeal, and I have determined your appeal should be granted in part and denied in part.

The Biographical Sketch, dated 1 January 1957, is exempt from mandatroy disclosure under the Freedom of Information Act, 5 U.S.C. 552(b)(6). The disclosure of this information would constitute a clearly unwarranted invasion of personal privacy. Release of this type of information is also prohibited by paragraph 27b, Air Force Regulation 12-35 (32 CFR 806b).

The two AFCIN memoranda, dated 11 February 1958 and 26 December (no year indicated) are intra-agency memoranda containing opinions and suggestions and are exempt from mandatory disclosure under the Freedom of Information Act, 5 U.S.C. 552(b)(5). These memoranda are withheld in an effort to promote the free and frank interchange of ideas, opinions and recommendations among Air Force personnel. The information withheld is primarily opinion which would not be routinely available through the discovery process.

Portions of the AFCIN-1E-0 letter, dated 3 November 1961 are releasable; however, the remaining portions are still exempt from mandatory release under the Freedom of Information Act 5 U.S.C. 552(b)(1). This information and the AFOIN-X(SG) memos are currently classified under Executive Order 12065, Section 1-301 (a) and (c), as implemented by Department of Defense regulation 5200.1-R, paragraphs 2-301 (C) (3) and (5). The continuing protection of this information is essential to the national security because it reveals intelligence sources and methods. The release of this information could reasonably be expected to cause identifiable damage to the national security. The AFOIN-SSG letter has been declassified and is released.

This letter constitutes the final Air Force action on your appeal. Under the Freedom of Information Act 5 U.S.C. 552, provision exists for judicial review of this determination.

Sincerely,

ROBERT W. CRITTENDEN
Deputy Administrative Assistant

1 Attachment
Releasable Material

FOIA # 42
CUFON Computer UFO Network
Date Sent: 09-30-1986
Subject: 1986 BLUEFLY & MOONDUST

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS UNITED STATES AIR FORCE

WASHINGTON, D.C.

20330-5025

11 APR 1986

Mr.________________________
____
____

Dear Mr.__________________

This responds to your 25 March 1986 Freedom of Information request.

Attached is the only document in the Air Force Intelligence Office (AF/IN) relative to your request.

AF/IN has no knowledge of "ICGL#4" dated 25 April 1961, pertaining to Project Moon Dust. No "AFCIN SOP for Blue Fly Operations, February 1960" was located. The programs (UFO, Blue Fly, Moon Dust) no longer exist and records were destroyed.

There is no Air Force Intelligence unit responsible for collections under these projects since the projects are no longer active.

Fees are waived in this instance.

Sincerely

ANNE W. TURNER
HQ USAF Freedom of
Information Manager

1 Atch
AF/IN Document

RECEIVED 16 APR 1986

86-370

FOIA # 43
CUFON Computer UFO Network
Date Sent: 10-15-1986
Subject: 1961 MOONDUST PAGE 1

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON 25, D.C.

REPLY TO
ATTN OF: APCIN-1E-0/Colonel Betz

SUBJECT: (U) AFCIN Intelligence Team Personnel 3 NOV 1961

TO: APCIN-1E
APCIN-1
IN TURN

This draft proposal was not approved and was not for - ___________ (word not clear) for action.

N.M. Rosner
PROBLEM: NORMAN M. ROSNER
Lt. Colonel, USAF

1. (U) To provide qualified personnel for APCIR intelligence teams.

FACTORS BEARING ON THE PROBLEM:

2.

c. In addition to their staff duty assignments, intelligence team personnel have peacetime duty functions in support of such Air Force projects as Moondust, Bluefly, and UFO, and other AFCIN directed quick reaction projects which require intelligence team operational capabilities (see Definitions).

d. Normal personnel attrition, through PCS, discharge, retirement, etc., has reduced the number of intelligence team qualified personnel below a minimum requirement, and programmed personnel losses within the next ten months will halve the current manning.

e. Personnel actions within the authority of AFFMP, AFCIN and AFCIN-1E can be taken to reverse the trend toward diminishment of the intelligence team capability.

3.

FOIA # 44
CUFON Computer UFO Network
Date Sent: 10-15-1986
Subject: 1961 MOONDUST PAGE 2

---

4. ___ Criteria

a. Intelligence team personnel can perfomr effectively only with an adequate background of training and experience. Inadequately qualified personnel in such assignment would be a liability rather than an asset to successful accomplishment of the mission.

5. ___ Definitions.

a. Linguist: Personnel who can develop intelligence information through interrogation and translation from Russion and/or Bloc country languages to English.

b. Tech Man: Personnel qualified to develop intelligence information through field examination and analysis of foreign material,

with emphasis on the Markings Program and technical photography.

c. Ops Man: Intelligence team chief. Qualified to direct intelligence teams in gaining access to target, in exploitation of enemy personnel and material, and in use of field communications equipment for rapid reporting of intelligence information.

d. Airborne Personnel: Military trained and rated parachutists.

e. Unidentified Flying Objects (UFO): Headquarters USAF has established a program for investigation of reliably reported unidentified flying objects within the United States. AFR 200-2 delineates 1127th collection responsibilities.

f. Blue Fly: Operation Blue Fly has been established to facilitate expeditious delivery to FTD of Moon Dust or other items of great technical intelligence interest. AFCIN SOP for Blue Fly operations, February 1960, provides for 1127th participation.

g. Moon Dust: As a specialized aspect of its over-all material exploitation program, Headquarters USAF has established Project Moon Dust to locate, recover and deliver descended foreign space vehicles. ICGL #4, 25 April 1961, delineates collection responsibilities.

DISCUSSION:

6. ___

a. Headquarters USAF (AFCIN) maintains intelligence teams as a function of AFCIN-1E (1127th USAF Field Activities Group). Personnel comprising such teams have normal AFCIN-1E staff duties, and their maintenance of qualification for intelligence team employment is in addition to their normal staff duties. For example, the Chief of AFCIN-1E-OD, the Domestic Operations Section, additionally participates in approximately 18 hours of training per month for intelligence team employment. Such training includes physical training, classroom combat intelligence training, airborne operations, field problems, etc.

---

b. Intelligence teams are comprised of three men each, to include a linguist, a tech man, and an ops man. All are airborne qualified. Cross-training is provided each team member in the skills of the other team members to assure a team functional capability despite casualties which may be incurred in employment.

c. Peacetime employment of AFCIN intelligence team capability is provided for in UFO investigation (AFR 200-2) and in support of Air Force Systems Command (AFSC) Foreign Technology Division (FTD) Projects

Moon Dust and Blue Fly. These three peacetime projects all involve a potential for employment of qualified field intelligence personnel on a quick reaction basis to recover or perform field exploitation of unidentified flying objects, or known Soviet/Bloc aerospace vehicles, weapons systems, and/or residual componants of such equipment. The intelligence team capability to gain rapid access, regardless of location, to recover or perform field exploitation, to communicate and provide intelligence reports is the only such collection capability available to AFCIN, and is vitally necessary in view of current intelligence gaps concerning Soviet/Bloc technological capabilites.

d. Wartime employment of AFCIN intelligence team capability is currently primarily geared to the CONAD/NORAD air defense mission (Atch I). The intelligence team concept was originally developed within the Air Defense Command (ADC). The ADC Director of Intelligence was charged in 1953 with organizing the 4602d Air Intelligence Service Squadron (AISS), with a wartime mission of exploiting downed enemy "people, paper, and hardware" for intelligence information that would contribute to the air defense of the continental US, and ADC was allocated manpower for this function (ADC Regulation 24-4, 3 Jan 53, Organization and Mission of the 4602d Air Intelligence Service Squadron).

e. As an economy move, the 201 spaces of the 4602d AISS were transferred to AFCIN in July 1957 (Hq Comd General Order 46, dtd 8 Jul 57), to provide manning for peacetime AFCIN functions, but with the contingency that AFCIN would continue to maintain a capability to support CONAD/NORAD in the wartime people, paper, and hardware mission (Atchs 2 and 3). From the 194 spaces that AFCIN allocated to the 1006th AISS, activated by Hq Comd General Order #49, 2 Jul 57, this capability was provided for (Dept of AF ltr, dtd 16 Jul 59, subj: Mission of the 1006th AISS), and the capability has been maintained to the present time, through the redesignation of the 1006th to the 1127th USAF Field Activities Group (AFCIN Policy Ltr 205-13, 13 April 1960).

f. The maintenance of the intelligence team capability over the four year period since inactivation of the 4602d AISS has been possible largely because members of the original highly select and trained 4602d personnel remained with the organization during its subsequent designations. ____
____

FOIA # 46
CUFON Computer UFO Network
Date Sent: 10-15-1986
Subject: 1961 MOONDUST PAGE 4

______________________ In addition, a minimum number of new personnel assigned to the organization and fortuitously possessing basic requisite skills, were further trained and integrated into the intelligence team program as additional duty.

g. Manning of the intelligence teams from these sources has now reached the point of diminishing returns. Only 21 qualified intelligence team personnel are now assigned, and of these approximately half are scheduled for PCS departure from the organization during the next 12 months. There is no forecast input of previously qualified personnel. There are currently five basically qualified volunteers for further training and assignment to intelligence team additional duty.

h. In an effort to augment the diminishing capability, USAF personnel assigned to organizations other than the 1127th within the Washington area who have airborne/intelligence team qualification, and/or who are former members of this organization's intelligence teams, and who have been approved by their organization of assignment and Hq USAF (AFCIN) for wartime assignment to the 1127th, have been issued appropriate orders, and participate in the peacetime training program for wartime employment. Two such personnel are attached, with no known available additional personnel.

i. The most serious immediate and forecast intelligence team shortage is in Linguists. There are now only five Russion Linguists assigned or attached, and of these only two are of native fluency, with the other three of language school capability. Four of the five, including the two of native fluency, are forecast for PCS by November 1962. Only one gain, fortunately of native fluency, is scheduled for airborne training for intelligence team qualification and assignment. Two additional Russian Linguists are forecast for assignment to the 1127th, but neither are yet intelligence team qualified or are known to be volunteers for intelligence team assignment. All intelligence team personnel are volunteers.

j. ____
____
Eight personnel in these categories are forecast for PCS loss within the next twelve months, with an input forecast of five personnel, four of whom are presently assigned, basically qualified volunteers for airborne training, and one of whom is a forecast gain to the 1127th.

k. A sizeable number of qualified Linguists are presently assigned to ____
_______ ZI bases. Many of the Linguists are either airborne rated and/or have had intelligence team assignments to this organization in its present or former designations. Reassignment of these individuals to AFCIN-1E upon completion of their present tours is a logical method by

---

which the current and forecast shortage could be met. A problem that would be encountered in implementing such assignment is the lack of

1127th Linguist AFSC manpower vacancies. The 1127th has only twelve Linguist AFSC manpower spaces allocated and seven of these spaces are filled with either non-Russian/Bloc country Linguists or with non-intelligence team qualified Linguists.

1. Possible solutions to the current and forecast shortage are:

(1) Basically qualified personnel currently assigned to AFCIN-1E who volunteer for further training, to include airborne training, and assignment to intelligence teams, should be given such training and assignment as additional duty to normal staff duty employment.

(2) Assignment to the 1127th of intelligence team qualified Linguists returning from overseas or completing other ZI assignments on an authorized overage basis. Such authorized overages were previously assigned to the organization and provided not only for the intelligence team capability, but for fruitful peacetime ZI employment of Linguists. Ten such personnel could be fully and effectively utilized during peacetime in duties directly in or closely allied to their AFSC's, with the intelligence team capability being an additional duty.

(3) Qualified intelligence team personnel now assigned to the 1127th could be retained beyond their normal duty tours until a similarly qualified replacement is forecast or assigned.

e. A standard AFPMP and AFCIN-P policy should be the identification to AFCIN-1E of previously qualified intelligence team personnel forecast for return to the ZI form overs3eas assignments for assignment against AFCIN-1E forecast personnel vacancies. Latitude may be required and should be authorized in the assignment of such personnel be grade and AFSC. For example, if a 204XX vacancy is forecast withing AFCIN-1E and an intelligence team qualified 203XX is forecast available, and the 203XX is determined able to perform the staff duties required, either from personal knowledge of the individual's capabilities, or by means of an exchange of correspondence between the losing command and AFCIN-1E, authorization for asignment of the 203XX against the 204XX vacancy should be granted. It is generally true that 203's with AISS background are normally able to perform 204 duties effectively with a minimum of experience on the job. To a lesser degree, and on a selective basis, this is also true of 203's being able to perform intelligence organization 702 duties.

n. Discussion to this point has covered the intelligence team development, composition, current peacetime and wartime missions, and personnel problems. To further establish the value of the unique Air Force capability represented by the intelligence teams, their future potential for employment should be considered.

FOIA # 48
CUFON Computer UFO Network
Date Sent: 10-15-1986
Subject: 1961 MOONDUST PAGE 6

CONCLUSION:

7. __ There is a valid current and continuing need for the AFCIN intelligence team capability for peacetime and wartime employment. Actions necessary to maintain the capability in "cadre" strength should be immediately implemented, and actions to expand the capability should be implemented on a sound basis of personnel acquisition, training, equipping, and employment.

ACTION RECOMMENDED:

8. ___

a. Basically qualified personnel currently assigned to AFCIN-1E who volunteer for further training, to include airborne training, and assignment to intelligence teams, should be given such training and assignment as additional duty to normal staff duty employment. Attachment 4 is a current request for airborne training quotas for five qualified volunteers.

b. AFCIN-1E should prepare, and submit through appropriate channels, individual justifications for the following:

(1) Authorized overage assignment on a selective basis of an initial ten intelligence team qualified Linguists returning to the ZI from overseas assignment, with a later additional supplement in the event of AFCIN authorized expansion of cadre strength of the intelligence team capability.

(2) Detention beyond normal duty tours of qualified intelligence team personnel now assigned to the 1127th until similarly qualified replacements are forecast or assigned.

(3) Request for establishment of an AFPMP and AFCIN-P practice to identify to AFCIN-1E previously qualified intelligence team personnel forecast for return to the ZI from overseas assignments. Latitude should be requested by AFCIN-1E in assignment of such personnel against actual or forecast vacancies in AFSC and grade spaces in variance with those possessed by the returnees if it is established that returnees have non-AFSC skills which can be effectively utilized in the vacant spaces.

(4) Ninety-day TDY of AFCIN intelligence team to South Viet Nam for employment in Viet Nam/Laos against USAF intelligence requirements. Experience gained in establishing logistical support and operational employment will be invaluable in developing further plans for intelligence team utilization. The team should be attached to the Air Attache, Viet Nam, and under his operational control for the period of TYD.

4 Atch
1. Excerpt, 1127 COP 1-60, re NORAD Supper

2. Cy 1tr, Gen Taylor, 23 Jan 57
3. Cy 1tr, Gen Lewis, 4 Mar 57
4. Req for Airborne Tng Quotas

7

FOIA # 49
CUFON Computer UFO Network
Date Sent: 10-17-1986
Subject: 1986 HQ CR 44 IVOE

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS

BOLLING AIR FORCE BASE, DC 20332-6001

6 JAN 1986

Mr________________
____

Dear Mr.__________

This is in response to your Freedom of Information Act requests of 19 and 21 December 1985.

A search of the Defense Central Index of Investigations (DCII), using the data furnished in your letter, has disclosed that AFOSI is not maintaining any information identifiable with "PROJECT SNOWBIRD,PROJECT SIGMA,PROJECT AQUARIUS" or "MJ TWELVE". The DCII is a consolidated listing of files held by the Department of Defense.

The releasable portions of AFOSI Headquarters (HQ) Collections Requirement (CR) 44A, dated 23 Noremberr 1983, is attached. HQ CR 44 was superseded by HQ CR 44A. Notations were inserted in the attached document wherever a deletion was made. The notations are explained as follows:

a. "b1" pertains to information which is currently and properly classified under criteria established by Executive Order and is authorized to remain classified in the interest of national security or foreign policy. The authority for this exemption may be found in the United States Code, Title 5, Section 552(b)(1) and the Air Force Regulation 12-30, paragraph 10a.

b. "b5" pertains to information which concerns inter - or intra-agency memoranda exchanged between components of this headquarters or between components of this headquarters and other Federal agencies. The authority for this exemption may be found in the United States Code,Title 5, Section 552(b)(5) and Air Force Regulation 12-30, paragraph 10e.

Should you decide that an appeal to this decision is necessary, you must

write to the Secretary of the Air Force within 45 days from the date of this letter. Include in the appeal your reasons for reconsideration and attach a copy of this letter. Address your letter as follows:

Secretary of the Air Force
Thru: HQ AFOSI/DADF
Bolling AFB, DC 20332-6001

HQ AFOSI is not maintaining the document described in your 21 December 1985 request as, "a document from AFOSI/IVOE dated 171130Z Nov 80."

FOIA # 50
CUFON Computer UFO Network
Date Sent: 10-17-1986
Subject: 1986 HQ CR 44 PAGE 2

The third item of your 21 December 1985 letter pertained to abbreviations, which are explained as follows:

a. "HQ IVOE: "HQ" is an abbreviation for "Headquarters" and when it appears on documents originated by AFOSI, denotes Headquarters AFOSI at Bolling AFB, DC. The "IVOE" is an AFOSI office symbol for the "Security Operations Division" of the Directorate of Counterintelligence, HQ AFOSI.

b. "HQ IVOS": "HQ is explained above. "IVOS" is an AFOSI office symbol for the "Security Operations Division" of the Directorate of Counterintelligence, HQ AFOSI.

c. "(S/WINTEL)": This acronym is a warning lable used to identify intelligence sources and methods. This notice is applied to documentd which contain such information.

d. "(S/WINTEL/FSA)": "S/WINTEL" is explained above. The term "FSA" is unknown to AFOSI.

Sincerely,

CECIL W. FRY, SA
Chief, Information Rrlease Division
Directorate of Administration

1 Atch
CY of HQ CR 44A,
Less Exemptions

EOF

--
-* Don Allen *- InterNet: dona@bilver.UUCP // Amiga..for the rest of us.

USnail: 1818G Landing Dr, Sanford Fl 32771 \X/ Why use anything else? :^)
UUCP: ..uunet!tarpit!bilver!vicstoy!dona   0110 0110 0110 Just say NO!
Illuminati < MJ-12|Grudge|TLC|CFR|FED|EEC|Bush > WAR = "New World Order"